

APE 2024 PRODUCT BROCHURE

1st Edition



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Exhibitors' Profile

Optical Communication

- Optical Communication Chip
- Optical Communication Device
- Optical Communication Module
- Optical Communication Transmission Equipment
- Optical Fiber Materials
- Optical Fiber Cable/Fiber Sensing
- Semiconductor Materials
- Semiconductor Equipment and Manufacturing

Laser

- Lasers
- Laser Material & Component
- Laser Component
- Laser Equipment

Display

- Display Material
- Display Panel/Module
- Display Manufacturing

Optics

- Optical Material and Component
- Optical Processing Equipment
- Optical Coating Material
- Optical Lens and Camera Module
- Optical Measuring Instrument
- Machine Vision and Industrial Automation
- AR/VR

Sensing

- Industrial Sensor
- 3D Imaging & Sensing
- MEMS and Sensor
- LiDAR & Component

Infrared

- Infrared Material
- Infrared Component
- Infrared Equipment and Imaging

Visitors' Profile



Optical
Communication



Semiconductor Processing
& Manufacturing



Advanced
Manufacturing



Consumer Electronics



Medical



Surveillance &
Security



Sensing &
Measurement



Lighting & Displays



Energy

InnoLight Technology Pte.Limited



**Booth
EE-26**

InnoLight Technology Pte. Limited (UEN: 201842370G), the holding subsidiary of InnoLight Technology, was established in the year of 2018. It operates in Singapore as Group’s overseas international headquarter mainly by integrating whole sale trade, R& D and investment functions. InnoLight specializes in providing high-speed optoelectronic interconnection solutions. The optical transceiver product line covers 10G/25G/40G/100G/400G/800G and is widely used by many of the world’s top data centre operators, equipment manufacturers, system integrators, and telecommunications operators.

[Main Product]

We provide 40G, 100G, 200G, 400G, 800G, 1.6T high-speed optical transceivers for global cloud data center customers, and providing 5G fronthaul, midhaul, and backhaul optical transceivers for telecom operators and equipment customers, as well as high-end overall solutions such as transmission optical transceivers applied to telecom metropolitan area networks, backbone networks, and core networks.

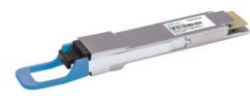
400G ZR QSFP-DD DCO



All-series QSFP-DD Coheret Products



800G QSFP-DD Series Products



400G QSFP112 Series Product

Suzhou SuTuo Communication Technology Communication Co., Ltd



**Booth
EE-22**

Suzhou SuTuo Communication was established in 2004. It is a national high-tech enterprise integrating research and development, production, sales and technical services. The company's business covers optical modules, optical devices, and communication network supporting products, and is committed to providing customers with overall communication network solutions.

[Main Product]

Our independently developed products include DFB, EML, VcSEL and other module products with transmission distances from 10km to 120km and speeds from 10G to 400G. We provide highly competitive optoelectronics solutions for digital economy applications such as 5G, PON and industrial interconnection.



400G QSFP DD FR4



25G SFP28 TUNABLE DWDM (96 waves)



10G EML TOSA

Potron Technology Co., Ltd



**Booth
DB-21**

Potron Technology Co., Ltd. was established in August 2017, located in Shenzhen, China. There are three production bases, Shenzhen China, Dongguan China and Bac Ninh Vietnam. There are more than 500 employees worldwide in Potron. Potron is a professional R&D and manufacturing company for high speed Optical Transceivers and Components. Total production area is about 15000 square meters, including class 10K and 100K clean room, with production capacity over 6.5 million units per month.

[Main Product]

1.25G/2.5G/10G/50G PON for FTTx 40G/100G/200G/400G/800G for Data center 25G/50G eCPRI for 5G wireless.



**800G QSFP-DD SR8 LPO
Transceiver**



25GS-PON ONU BOSA



**400Gb/s QSFP-DD LR4
Transceiver**

Flyin Optronics Co., Ltd



**Booth
DC-11**

Flyin Group established in Nov. 2005, a High-tech enterprise and a leading worldwide manufacturer of fiber optic products. After 19 years of development, Flyin has grown into a group company with 3 companies. Flyin owns 2 factories. One is in Shenzhen with 10000 square meters, another is in Vietnam with 2000 square meters. We have around 850 employees. We have passed ISO9001:2015 and ISO14001. Our main products including CWDM, DWDM, AWG, Transceiver, AOC, DAC, Patchcord, PLC and Optical Switch.

[Main Product]

CWDM, DWDM, AWG, Transceiver, AOC, DAC, Patchcord, Optical Switch, PLC, Circulator, Media Converter.



Passive WDM



Transceiver



Patchcord and Jumper

PHOGRAIN Technology (ShenZhen) Co., Ltd.



Booth DC-12

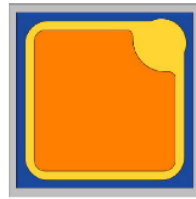
PHOGRAIN was established in 2015, which is a leading enterprise in the field of photodetector chips and optical devices in China. which holds over a hundred key technology patents in this field and has achieved a shipment volume of over 100 million photodetector chips and optical devices. The company has established the IDM production model, which can independently carry out the research and development, design, production, testing and packaging of photodetector chips and optical devices, and provide customers with comprehensive and integrated photodetector chips and optical device products.

[Main Product]

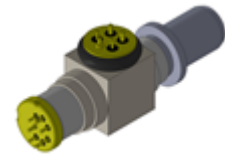
Communication Field 155Mbps-800Gbps PIN PD Chip 1.25Gbps-50Gbps APD Chip SPAD Chip Sensor Field PM2.5 Air quality monitoring sensor Chip Proximity Optical sensor Chip LiDAR sensor Chip Deformation/vibration monitoring sensor Chip Optical detection sensor Chip Gas detection sensor Chip.



APD200/500/1000



MPD(400nm~1650nm,950nm~1750nm,1100nm~1900nm,1100nm~2300nm)(φ200μm~φ1000μm)



25G/50G PON ONU BOSA

WOORIRO CO.,LTD



Booth EE-15

WOORIRO is the first company to specialize in the optical industry in Korea. Especially, After developing and successfully mass-producing a microscopic splitter for the first time in Korea, it is contributing to the development of optical communications market by rapidly growing with leading technologies such as PLC wafer ,which is essential for optical communications network, Photodiode (PDmodule, PDwafer), and Quantum cryptography communication devices (SPAD).

[Main Product]

PLC Splitter / Wafer, Chip, Module PLC / DWDM , CWDM , LAN-WDM Chip Photodiode / 10G, 25G, 56G PIN PD Chip, APD TIA ROSA, PIN TIA ROSA, MPD, QPD, APD, LAPD, OTDR SPAD(Single-photon avalanche diode) / NFAD(Negative Feedback Avalanche Diode).



56Gbaud PIN Photodiode Chip



56Gbaud PIN TIA ROSA



SPAD with Internal TEC

LUXIC Technology Co., Ltd



**Booth
EG-13**

LUXIC Technology is a leading global supplier of high performance semiconductor products in the optoelectronic interface markets, specializing in designing, developing, manufacturing and selling high speed analog and mix-signal interface integrated circuit chips. Luxic products are widely used in data center, coherent optical communication, 5G network, FTTX, consumer active optical cable (AOC) and autonomous driving areas. LUXIC was established in 2020, and has offices and facilities in Singapore, New York, Guangzhou, Suzhou and Shanghai.

[Main Product]

1. Laser or modulator driver, including VCSEL, DFB lasers, MZ modulator and EA modulator, the symbol rate covering 10G-128GBaud, modulation type covering NRZ, PAM4 and coherent, with up to 12 channels to support 10G-1.6Tbps optical transceiver applications; 2. high speed transimpedance amplifier (TIA) products, including limiting, burst mode, linear types for NRZ, PAM4 or coherent applications, the symbol rate covering 10G-128GBaud, with up to 12 channels to support 10G-1.6Tbps data rate module. 3. 4x25G CDR integrated DML driver or TIA to support 100G-LR4/CWDM4/PSM4 etc applications..



400G PAM4 VCSEL Driver



Nx100G PAM4 TIA



Nx100G PAM4 MZ Modulator Driver

Shanghai Minisilicon Technology Co.,Ltd.

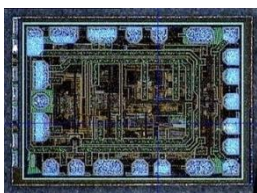


**Booth
DB-12**

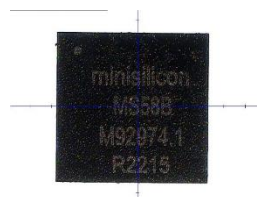
Minisilicon is a leading mixed-signal and timing product company. Minisilicon supports a large portfolio of electronic components for optical communications from Cloud & Datacenter networks to 5G networks to FTTx access networks. The portfolio addresses the high-performance analog interfaces between electrical and optical domains, providing solutions to meet the demanding size, power and signal integrity requirements of today's high-speed networks—which are expanding to meet the continuously growing demand for data capacity.

[Main Product]

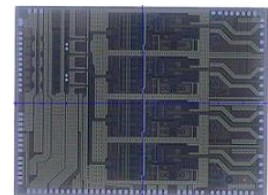
- FTTx PON Access - Datacenter - Transmission and Backbone.



**ms52000 - 10G Burst Mode
TIA for XGS PON**



**ms58000 -XGS PON OLT
Transceiver**



**ms86040/ms87040 chipsets
-for 200G SR4/400G SR8
application**

Shenzhen Li-Chip Technology co., Ltd

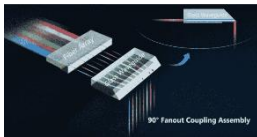


**Booth
EF-75**

Shenzhen li-Chip Technology Co., Ltd is founded in 2018. LI-CHIP Technology is a high-tech photonic chip company integrating R&D, manufacture and sales, it has been the global No. 1 market share of Planar Lightwave Circuit (PLC) splitter chip supplier since . The headquarter of L-CHIP Technology locates in Shenzhen city with over 200 staffs and 8000 m working areas for small batch manufacture, research and design. LI-CHIP Technology has established long-term scientific research and design center in Shanghai city and massive manufacture base in Ganzhou city, Jiangxi Province.

[Main Product]

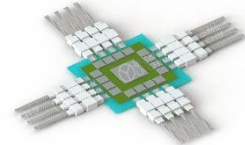
LICHIP Technology main products include: PIC optical splitter series chips(1x2,3,4,5,6,7,8,9,12,16,32,64 etc., optical coupling TAP) chips and components, silicon coupling-fanout chips and components, RGB three-color visible light beam combining chips, optical hybrid integrated system (Hybrid SOOS), EOPCB (optical hybrid PCB board), biological and chemical integrated optical waveguide sensor chips integrated optical waveguide microfluidic chips, customized Submount base, etc.



Waveguide silicon optical couple fan-out component(WFA)



Pluggable optical interconnect chip and component



Hybrid SOOS: System On Optical Substrate

Hamamatsu Photonics K. K



**Booth
EF-10**

Hamamatsu Photonics, as an optical technology group, conducts basic optical research and develops, manufactures, and sells various optical-related products. Typical products we handle include photodetectors such as photomultiplier tubes and photodiodes, light sources such as lasers and LEDs, and cameras, image analysis devices, and optical measurement devices that use photodetectors as key components. In addition to research into the essence of light, we are also working on industrial applications of optical technology from a variety of perspectives.

[Main Product]

Photomultiplier tube (PMT), MPPC module, LCOS-SLM, LIGHTNINGCURE LC-L5G: Linear irradiation type UV-LED unit, Photolonizer, VUV Ionizer: Electrostatic charge removers, Flat panel sensor, Mini-spectrometer, FPI module, PD module, camera.



LCOS-SLM(optical phase modulator) X15213 series



Small size spectrometers



Optical sensor modules

Advanced Fiber Resources (Zhuhai) Ltd



**Booth
DB-19**

Advanced Fiber Resources (AFR) designs and manufactures standard and custom components, modulators, and provides contract manufacturing solutions to our customers. Our products are widely used in fiber laser, telecom, data center, fiber sensing, autonomous driving, biomedical equipment, as well as research institutes and universities around the globe. AFR' s products have been sold to customers in more than 40 countries and regions worldwide.

[Main Product]

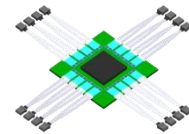
LN Modulators & Chips, LiDAR Light Source & Components, Fiber Laser Components, Hi-Rel Components.



**C+L Band 130 GBaud TFLN
Coherent Driver Modulator**



Optical Delay Line



**High Density Multi-Channel
Fiber Array Series**

ORI-CHIP OPTOELECTRONICS TECH.LTD.



**Booth
DB-20/DB-10**

Ori-Chip is dedicated to making the state-of-the-art photonic integrated circuits including both InP and thin-film lithium niobate platforms.

[Main Product]

thin-film lithium niobate MZM modulators full C-band widely-tunable lasers DFB laser.



**Thin-film lithium niobate
MZM modulators**



1550nm DFB Laser

SENKO Advanced Components (Shenzhen) Ltd.



**Booth
EE-03**

SENKO's Interconnect portfolio leads the optical communications industry with an advanced focus on the design, testing and manufacturing of all its solutions. As a result, SENKO is proud to be part of a more connected future through new fiber optic technology and innovations SENKO specializes in Optical Interconnect solutions which are considered vital components to fiber optic network deployment, maintenance, and reliability. Fiber optic networks are enabling high-speed and high-bandwidth communications like never before. With the dawn of 5G and the Internet of Things (IoT), data requirement.

[Main Product]

Fiber optic networks are enabling high-speed and high-bandwidth communications at an accelerating pace. Fiber Optic Interconnect enables a system to transmit signals from one part of an integrated circuit to another, using light as the method of transmission. This makes Optical Interconnect a crucial aspect of fiber optic networks where consistent, reliable, and trusted performance is critical. SENKO products can be found in the following markets: Telecom Wireless Data Centers Industrial Medical Automotive and Aviation and more. Wherever there is Fiber Optic Interconnect, you can find SENKO.



SN® Standard Optical Connector



CS® Standard Optical Connector



SN-MT 16F Connector

US CONEC LTD



**Booth
EH-01**

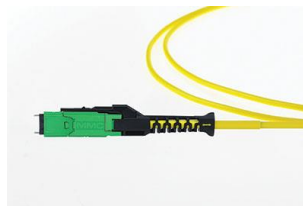
With over 30 years of proven innovation, US Conec continues to redefine the optical interconnect industry with high-density connectivity solutions for datacenter structured cabling, public network, on-board interconnect, industrial and military markets worldwide. Key developments include MT ferrules, MTP®, MTP®PRO, MXC®, PRIZM® LightTurn®, PRIZM®MT, ELiMENT™, MDC, MMC, FastTrack™ and IBC™.

[Main Product]

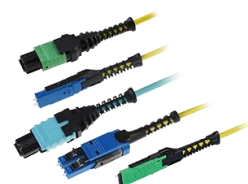
Key developments include MT ferrules, MTP®, MTP®PRO, MXC®, PRIZM® LightTurn®, PRIZM®MT, ELiMENT™, MDC, MMC, FastTrack™ and IBC™.



MTP® PRO Connector



MMC Connector



DirectConec™ Push-Pull System

Litas Optics / Arrayed Fiberoptics



**Booth
EG-15**

Litas Optics is a high-tech enterprise focusing on the research, development, production and sales of optical fiber connector products. The company is headquartered in Ningbo, Zhejiang, and has wholly-owned subsidiaries in Silicon Valley and Shenzhen. The company has a series of far-reaching inventions in the world optical fiber connector industry, and occupies a leading position in technology. Its invented non-contact optical fiber connector has been widely recognized by the industry, and the company has invention patents in China and the United States.

[Main Product]

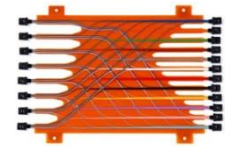
The company specializes in non-contact optical fiber connectors, including non-contact single and MPO fiber connectors and MJC fiber connectors, MTC fiber connectors, MT-to-MPO adapters, optical back board and test equipments.



Super fast insertion loss tester



Non-contact fiber connectors



Optical Back Board

JIANGSU ETERN COMPANY LIMITED



**Booth
DD-25**

ETERN, founded in 1978, has dozens of holding and shareholding companies, and its subsidiary Jiangsu ETERN Co., Ltd. was listed on the Shanghai Stock Exchange in September 1997, which is the first private listed company in China's optical fiber cable industry. After two decades, ETERN has developed into one of the leading companies covering the whole industry chain of communication, including fiber optic cable, wire and cable, special optical cable, optical components, communication devices and equipment, communication big data and engineering services, and system integration solutions.

[Main Product]

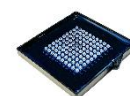
Fiber optic cable, wire and cable, RF cable, leakage cable, special optical cable, optical component, communication devices and equipment, communication big data and engineering services, system integration solutions to provide the whole industry chain of communication coverage.



100GHz & 50GHz DWDM TFF and DWDM WDM Devices



Athermal AWG



TFF Thin Film Filters for Biomedical and Automotive Radar Applications

**vsunlight photonic
technology(zhongshan)INC**

**Booth
DC-19**

Vsunlight Photonic Technology Inc is a leading manufacturer of fiber optic components which established in 2010 , with more than 200 experienced employees. Our engineering team and sales team have more than 10+ years of experience in optical communication. Armed with ISO9001:2015 Quality Management System, we are dedicated to provide high-quality and high-reliability optical fiber products to our customers all over the world. All products are complied with Telcordia-GR1209 & GR1221. Especially in the 5G and Cable TV market, our WDM series module has been applied in China, Korea and US market.

[Main Product]

Focus on optical passive products for 5G, Data Center, FTTx and CATV. DWDM&CWDM Solutions AWG Solutions PLC Splitter Solutions Pre-Terminated Cables Optical Connectivity.


Compact CWDM

PLC Splitter

Data center
Helios Create OE Co., Ltd

**Booth
FQ-09**

Helios Create OE Co., Ltd. The headquarter is located in Changchun city, Jilin Province. The manufacturing facility located in Changchun & Zhuhai, China and Vietnam. The company has been committed to the research, production and sales of optical communication products since year 2018. It has adequate skilled technicians and professional managers. Our main products are WDM、Isolator、 Switch、 PD、 VOA、 IWHD、 Circulator、 PLC and customized optical design products, etc. The company relies on rich R&D experience, advanced equipment and professional technicians.

[Main Product]

WDM, Isolator, Switch, PD, VOA, IWHD, Circulator, PLC and customized optical design products, etc.


WDM Module

**Planar Lightwave Circuit
Splitter**

Fiber Optical Patch Cord

JIEXUN PHOTOELECTRIC(FUJIAN)CO.,LTD



Booth DB-65

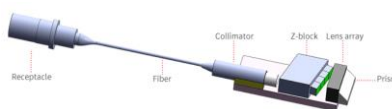
Jiexun Optoelectronics (Fujian) Co., Ltd. was established in 2008 and is a national level specialized, innovative, and high-tech enterprise. The company mainly provides core components for wavelength division multiplexing (WDM) systems for backbone networks and data centers; Provide high-speed engine optical components for 400G, 800G, and 1.6T modules. In order to meet the diversified and low-cost needs of customers, the company collaborates with upstream and downstream to develop vertical integration such as optical cold processing, coating, multi-core capillaries, high channel fiber arrays.

[Main Product]

The company main products include LENS, Pigtail, Collimator, Fiber Array, Attenuator, CWDM&DWDM wavelength division multiplexer and modules, splitter and splitter modules, hyperlink isolators with monitoring and wavelength division functions, MPO and accessory module products, MT-FA, 42.5 FA, Receiver Collimator, 400G Rx ZBLOCK and other high-speed integrated optical component products.



WDM module



400G Rx



Glass capillary

Shenzhen OE Photonics Co. Ltd.



Booth EF-55

Shenzhen OE Photonics Co.,Ltd. is a high-tech company specializing in the research and development, production and sales of advanced optical waveguide chips and components, optical devices and modules. Headquartered in Shenzhen, it has established a research and development center in Shanghai and a production base in Ganzhou, Jiangxi. The company has nearly 200 R&D and production personnel.

[Main Product]

OE Photonics' main products include: multifunctional optical waveguide chips and components (standard/custom), silicon optical coupling fan-out components (waveguide/ fiber array), optical coupler series (Splitter/ Tap Coupler), optical attenuator series, optical switches and Optical switch matrix series, optical wavelength division multiplexing (WDM) series, tunable optical filter spectrum analysis instrument series, etc.



1x2/1x4/1x8/2x2 Mechanical Optical Switch



MEMS 1xN(2≤N≤48) Optical Switch



C+L Tunable Optical Filter

OHARA OPTICAL (M) SDN BHD
**Booth
EF-73**

OHARA has 80 years of history pioneering optical glass. The broad array of glass products we provide to society have earned high marks from our many customers. We capitalize on our past experience and continue to create customer-friendly products as we work to realize a great future. OHARA is a long-established manufacturer of optical glass and special glass materials, and is developing the Optical business and Electronics business. OHARA provides a wide range of glass products to society and is highly regarded by various customers.

[Main Product]

Ohara is Japan's first manufacturer specializing in optical glass. We meet all optical design needs with a line-up of over 140 types of optical glasses with the characteristics that enable optical devices to attain higher performances, miniaturization and cost reduction. Depending on requests, we supply lens blanks in a suitable shape to be processed, finished lenses and so on. The Electronics business is supported by glass ceramics technology, which can impart properties not found in the base material by applying additional precision heat treatment to the fused and molded material.


**SK-1300 VAD-process
synthetic fused silica**

**LIGGC: Lithium-Ion
Conductive Glass Ceramic**

Optical glass and lens
Wuxi XinJuHong Intelligent Technology Co.,Ltd
**Booth
DD-21**

Wuxi Xin Giant Macro intelligent Technology Co, Ltd. was founded in January 2013, with plant area of 36000 m². The current number of employee is about 800. After years of rapid development, XGM successively founded the four divisions: fastener business division, precision machining business division, powder molding division, macro optical division. The headquarter locates in Wuxi, and we also have offices in Qingdao, Chengdu, Wuhan, Shenzhen, California and and set up new factory in Vietnam, so that we can provide services to our customers all over the world.

[Main Product]

Lens array for optical module Heatsink/Box for optical module 5G Data Center Autonomous Driving Optical Communication Medical Instruments Smart Home AR/VR.


Lens array for optical module

Optical window for LiDAR

**SHENZHEN FH-NET OPTOELECTRONICS
CO.,LTD.**
PHYHOME
**Booth
DB-07**

PHYHOME is a globally recognized enterprise specializing in Optical AccessNet and Industrial Internet. Founded in 2003, the company has established its headquarters in Shenzhen and has been recognized as a National High-tech Enterprise and a Specialized and Sophisticated SME of Shenzhen. With a highly skilled R&D team and nearly 100 intellectual property rights, our refined products have earned international certifications and gained trust from global customers. We are committed to becoming a world-class solution-provider of Optical AccessNet and Industrial Internet through continuous efforts.

[Main Product]

The main products include xPON Optical Line Terminal equipment, xPON Optical Network Unit equipment, Wi-Fi wireless products (routers/AP), 4G/5G CPE, switches, optical modules, passive optical components, and other Optical accessNet solution products, as well as industrial switches, data acquisition equipment, and data processing equipment required for Industrial Internet.


XG(S)PON AX3000 ONT P56

**Industrial PoE Ethernet
Switch**
**Guangzhou V-Solution
Telecommunication Technology Co.,Ltd**

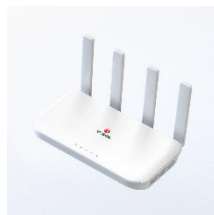
The logo for V-SOL, featuring a stylized red and white circular emblem above the text "V·SOL" in green.

**Booth
DB-11**

Founded in April 2007, Guangzhou V-Solution Telecommunication Technology Co., Ltd.(V-SOL) is a leading company with years of experience in R&D, manufacturing and sales of PON equipment and LTE/5G wireless products, providing high quality, customized FTTH & MBB solutions to ISP, telecom operators, channel agents and traders worldwide, insisting on independent R&D and technological innovation to access the world!

[Main Product]

VSOL R&D, manufactures, and sells optical communication access systems and terminal equipment. Now we've taken the lead in launching a number of original products in the industry, mainly including ONU/ONT, OLT, VoIP gateways, and other network access products, which are designed to meet the needs of telecom operators. We're committed to helping broadband users worldwide enjoy an ultra-high-speed network!


V3600D8: 8*10G EPON OLT

HG325AX: 10G EPON ONT

XMC1842

**SHANDONG YIBO OPTRONICS
TECHNOLOGY CO., LTD****Ebocom**[®]**Booth
DB-03**

Ebocom- Shandong Yibo Optronics Technology Co., Ltd is the excellent brand in Fiber Optical Cable and Telecommunication Solution in China. With 12 years experience in this field, we pay attention to the innovation, development and strict quality control. High Quality is what sets us apart from competitors. We have ISO certifications. To ensure product quality, we established professional testing laboratories and equipment, and conduct quality inspections for every process in cable production. And 25 production lines for producing various outdoor/indoor optic fiber cable.

[Main Product]

Main Products: Outdoor/indoor optic fiber cable, covering OPGW, ADSS, GYXTW, GYFTY, Figure 8, GJFJV/H, GYTA/S, GYTA/S53, MGTSV, FTTH drop cable, patch cord, micro cable, etc.



**OPGW-Optical Fiber
Composite Overhead Ground
Wire**

**SHENZHEN FLX OPTICO
COMMUNICATION CO.,LTD****optico****Booth
DC-51**

With 15+ years of industry experience, Shenzhen OPTICO Communication Co., Ltd is a leading manufacturer of fiber optic components and a professional provider of data center and FTTH solutions. We operate 3 major production lines totaling over 6000m² and a US-based R&D center. Our team has 360 experienced workers, including 30 engineers with 10+ years in fiber optics. As a certified high-tech enterprise, OPTICO always upholds first-class quality control, substantial production capacity and swift delivery, making us a long-term trusted name in the market.

[Main Product]

Cable assemblies include: MTP/MPO data center cabling solution; standard indoor SC/LC/FC/ST patchcord&pigtail; outdoor FTTA patchcord&pigtail; FTTH set; various adapters, attenuators and loopbacks. Passive components include: PLC splitter; FBT coupler; CWDM/CCWDM/DWDM/AWG device; FA-MT. Toolkits, like kelvar cutter, cable stripper, and FTTH Accessories such as splice tube, splice tray, fast connector, etc.

optico

**MTP MPO Cabling Solutions**

optico

**High Density Fiber Patch
Panel**

optico

**WDM Devices**

**ZHEJIANG HANXIN OPTOELECTRONIC
CORP.,LTD**

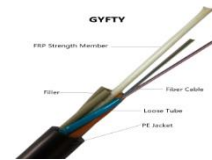
**Booth
EF-68**

Our company specializes in the production of various communication cables, especially optical cables and network cables. The company integrates production and sales, strictly controls all aspects of production, has affordable prices and high quality, and undertakes OEM and ODM services. It is your preferred optical cable supply partner.

[Main Product]

ADSS,all direct self-supporting optic fiber cable. ASU,also called mini-ADSS FTTH,fiber core from 1core to 12core with FRP or steel wire GYFTY,GYXFTY,GYTS and so on.


ADSS OPTIC FIBER CABLE

FTTH

GYFTY
DONGGUAN HONGGUANG CABLE CO.,LTD

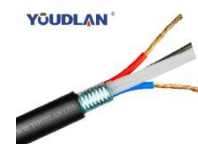
**Booth
DC-09**

Dongguan Hongguang Cable Co., Ltd., is a scientific and technological enterprise integrating R&D, production and sales of fiber optic cable. There are a lot of customers visited us from worldwide. With over 10 years' development, registered capital of 5 million USD, 5000sqm workplace, 9 production lines and about 60 skilled workers, our monthly output can reach up to 1000km fiber optic cables. With the belief of long-term business, quality is always the first place in our company. Our products are exported to the Asia, South America, Africa, etc. Welcome to visit our factory!

[Main Product]

We develop and produce a variety of fiber optic cables and patch cords. with Models such as FTTH, GYXTW, GYFTY, GYTS, GYTA, GYTA53, GYTS53, ADSS, GYTC8S, ASU-80, GYTA33 etc. With an excellent management system, we passed ISO9001:2008 certificate in 2023. On June 13, 2023, Alibaba group visited and verified us. We gained the honorary and passed by world-leading inspection company SGS group.


**GYTC8S Figure-8 fiber optic
cable**

**GYTS armoured fiber optic
cable**

**GDTs hybrid fiber cable with
copper power wires**

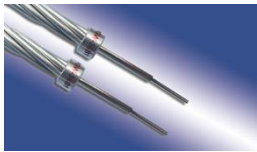
Fasten CG Fiber

**Booth
DD-15**

The company has strong research and development capabilities of optical rod, optical fiber, optical cable technology and new products ,and has a large number of technical and service teams, skilled in advanced project management methods . It has its own plant with a construction area of about 200,000 square meters and about 370 sets of various production equipments, which can achieve an annual capacity of 20 million kilometers of optical fiber cables, 16 million kilometers of optical fiber and 500 tons of optical fiber preform rods.

[Main Product]

communication cables: Outdoor optic cable , Indoor optic cable power cables: ADSS,ASU,OPGW special cable ,submarine cable preform rods optical fiber



**Typical Series of Central
Stainless Steel Tube OPGW
with Single Stranded Layer**



GYTC8A Figure 8 Cable



GYXTC8S type optical cable

**FIBER CABLE SOLUTION TECHNOLOGY
CO.,LTD.**

**Booth
DB-61**

FCST - Better FTTx,Better Life. We have been designing, manufacturing passive components for fiber optical networks since 2003. Everything we do is provide efficient solutions to customers in FTTx field. As manufacturer of micro duct connector, we can also do ODM according to customer's request. We will keep innovating to the construction of the global optical fiber network.

[Main Product]

1.Micro Duct Connector 2.2.Duct Sealing 3. HDPE Silicon Core Pipe Connector 4. Micro-duct Closure 5. Cable Lubricant 6.Micro-duct Tool& Tool Kit 7.OEM FTTH plastic box and manholes 8.cable clamps.



**FCST02296-P Fiber Access
Terminal-Outdoor Type**



**FCST-TH-SMC08 Telecom
Manhole Chamber(L431.8-
W762-D609.6mm)**



Micro Duct connector

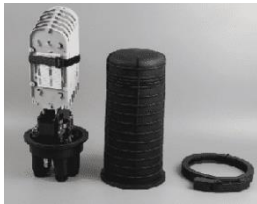
**NINGBO GMF TELECOM TECHNOLOGY
CO., LTD**

**Booth
DB-02**

Established in the year of 2010, Ningbo GMF Telecom Technology Co.,Ltd. is a professional designer, manufacturer and exporter of passive telecom network products. Our main products include patch cord, PLC splitter, distribution box, patch panel, ODF, closures, cabinets, Fiber Optic and Copper based network components.

[Main Product]

Full range of FTTH ODN materials: FAT, NAP, ODF, Cabinets, CTO, Patch cords, Splitters, Fast connectors, Distribution box, Optical fiber cable.


Fiber Optic Closures

**FTTH Indoor Distribution
Boxes**

**FTTH Indoor Distribution
Boxes-48 Fibers**
**YUYAO HEJOR COMMUNICATION
EQUIPMENTS CO.,LTD**

**Booth
DD-52**

Established in 2007, Huijia is a high-tech enterprise integrating R&D, production and sales of ODN products. The company's products include a variety of high-performance, multi-functional fiber optic distribution/ terminal box, optic splice closure, optical cable connectors and other FTTX& related Products. The products have obtained more than 30 patents, and have entered the development projects of European, American, South American, Southeast Asian and other countries and regions.

[Main Product]

The company's products include a variety of high-performance, multi-functional fiber optic distribution/ terminal box, optic splice closure, optical cable connectors and other FTTX& related Products.


**Dome fiber optic splice
closure**

**Dome fiber optic splice
closure**

Fiber optic distribution box

NINGBO HUITONG COMMUNICATION CO.,LTD



Booth
EE-05

Communication products for domestic market since 2006 The factory covers 35,000 square meters; 400 production personnel, monthly produce capacity 130,000 sets fiber distribution box 11 technical team for Metal /injection Plastic/Appearance CNC/ TEST. Equipment mould series, punch series, plastic injection series, auto-assembly series.

[Main Product]

Focus on Fiber Distribution Box/ Fiber Splitter Box/Fiber Splice Closure/ Metal Network Cabinet/fiber cable/fast connector.



fiber cross connection
cabinet



fiber termination box



fiber cable

ZHEJIANG RONGHUI COMMUNICATIONS EQUIPMENT CO.,LTD



Booth
DC-62

Zhejiang Ronghui Communication Equipment Co., Ltd. is a high-tech enterprise in communication field integrated with production, development, engineering and sales. Since its inception, the company has taken quality and reputation as the first element of enterprise survival and development, and has long been the company's excellent products Quality, good reputation, extraordinary price and perfect service, won the trust of our customers. while it sincerely hopes to implement more cooperation with the domestic and foreign customers for common development and co-creation of brilliancy.

[Main Product]

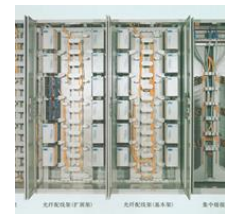
Fiber distribution frame Cable splice box Optical fiber cable distribution box Cable splice closure Cable terminal box Optical passive device: Tail fiber and jumper, Adapter, Optical branching device, Optical attenuator Digital distribution frame Integrated pallet Data equipment network cabinet Broadband access integrated distribution case Outdoor cabinet Communication equipment power-supply distribution file cabinet.



Cable splice box



Cable splice closure



Fiber distribution frame

**CIXI KERUI COMMUNICATION
EQUIPMENT**

**Booth
DA-09/DA-10**

CIXI KERUI COMMUNICATION EQUIPMENT CO., LTD. is located in Ningbo, the famous "communication product production base" in China. We have transportation convenience advantage, adjacent to Beilun Port in the east and the Hangzhou Bay Bridge in the south. Founded in 2012, our factory mainly engages in the research, development, production and sales of physical connection products in the field of optic communications. As a professional manufacturer of optic communication products, we have been committed to providing customers with high quality product.

[Main Product]

Optic Distribution Box, Optic Terminal Box, Optic Splice Enclosure, Optic Joint Box, Optic Connector and Adapter, Optic Pigtail and Patch Cord.


Mini Optic Splice Enclosure

16 Core FTTH Box

**8 Core Fiber Optic
Distribution Box**
**ZHEJIANG HONGYOU OPTIC TECH
CO.,LTD**

**Booth
EE-63**

Hongyou, a leading manufacturer of FTTX equipment, such as fiber distribution cabinet, fiber splitter distribution box, outdoor cabinet. It has 150 excellent employees and 13,000m² land with 2 buildings. Our spending has been increasing on new production equipment and quality control systems. Hongyou is currently comprised of many experienced engineers, technicians and workers. The engineering team allows Hongyou to perform at a higher level. Our technical support and sales personnel have over 10 years of experience working in FTTX equipment.

[Main Product]

Fiber Distribution Cabinet, Fiber Splitter Distribution Box, Fiber Terminal Box, Optical Distribution Frame, Outdoor Cabinet, Network Cabinet, IDC Cabinet, Modular Data Center


**YFDC-144B Fiber Distribution
Cabinet**

**YODF-U Type1 Optical
Distribution Frame Unit**

Single-cabinet Smart Module

Santec (shanghai) Co.,Ltd
**Booth
EF-05**

Santec was found in 1979, headquartered in Komaki Aichi prefecture, Japan and public listed in Tokyo Stock Exchange JASDAQ since year 2001. Santec's core competence includes mass manufacturing processes of MEMs, LCOS and advanced Ultimate-Grand-Ex thin film coating technology. In addition, high quality and customer satisfaction driven mentality are Santac's core value. Santec set up branch offices in China、 US、 UK and Canada for international market expanding. Santec's products are widely accepted by telecom, datacom component manufacturers, as well as universities and research institutes.

[Main Product]

Tunable Lasers Tunable Filters Componet Testing Swept Photonics Analyzer IL/RL Meters Optical Swtiches SS-OCT System Lasers for Swept-Source OCT 3D Optical Profiler Wafer Thickness Mapping System Spatial Light Modulator Programmable Optical Filters Optical Power Monitor Programmable Optical Filters.


**Programmable Optical Filters
WSS-2000**

**High-Speed LCOS Spatial
Light Modulator**

**High Performance Optical
Power Meter OPM-200**
Wuhan Precise Electronics Co., Ltd.
**Booth
DC-16**

Wuhan Precise Electronics Co., Ltd. is a high-tech enterprise in "Wuhan · China Optical Valley". Founded in 2010 in Wuhan, China, it is a technology-oriented enterprise integrating research and development, production, sales and service, and won the "specialized and special new" small giant enterprise. The company has long focused on test instrumentation and test system solutions in laser and semiconductor fields, and its products cover optical communication, lidar, laser display, laser medical, and semiconductor wafer chip device production lines.

[Main Product]

Optical Chip Test: 1.VCSEL Wafer Tester 2. BAR Tester 3.Chip Tester 4.COC Tester Reliability Test: 1.Chip Burn-in 2.Optical communication TO Burn-in 3.Lidar TO Burn-in 4.Visible laser TO Burn-in 5.Burn-in Fitting TO Test: 1.Optical Communication TO Test 2.Lidar TO Test 3.Visible laser TO Test OSA Test: 1.Laser Coupling Power Supply 2.LIV Comprehensive Tester 3.Detector Coupling Power Supply 4.BOSA Comprehensive Tester 5.OSA Three-temperature Test etc. Module Test: BERT, Clock Recovery and Oscilloscope etc. Module Test: Source Meter, Optical Power Meter and Optical Attenuator etc.


800G Module Test Solution

YOKOGAWA ENGINEERING ASIA PTE LTD

YOKOGAWA ◆

**Booth
 DD-06**

Yokogawa (formerly Ando) is the global leader in optical spectrum analyzers, delivering high quality, cutting edge technology with dependability. Annually, reinvests nearly a quarter billion dollars in research and development, much of it aimed at core technologies like test and measurement. Yokogawa's annual corporate revenues have grown to over \$4 Billion while amassing more than 6,000 patents and registrations. Founded in Tokyo in 1915, Yokogawa continues to work toward a sustainable society through its 17,000+ employees in a global network of 122 companies spanning 61 countries.

[Main Product]

Today, Yokogawa look to the future and continue to innovate with instruments such as the AQ6370 Series/AQ6380/AQ6360 of Optical Spectrum Analyzers , the AQ6150B series Optical Wavelength Meters and MATSAQ2200 a modular test platform with a wide selection of modules allows test solutions for optical components manufacturing. Additional, Our broad lineup of A1000, AQ1210 & AQ7280 Series OTDRs offer cost performance, field durability, and applicable dynamic range for installation and maintenance of fiber optic networks.


**AQ6370E Telecom Optical
 Spectrum Analyzer 600 -
 1700 nm**

**AQ6150B and AQ6151B
 Optical Wavelength Meter**

**AQ6373E Visible Wavelength
 Optical Spectrum Analyzer
 350 - 1200 nm**
ANRITSU PTE LTD
Anritsu
 Advancing beyond

**Booth
 EE-06**

Anritsu Corporation, is at the leading edge of 5G development and deployment, providing testing and monitoring solutions across the telecoms eco-system and different industry verticals related to 5G. Our test and measurement solutions cover the full range of devices, base-station and access networks, data centres and core networks, and across the full life cycle of R&D, certification, production, and installation/maintenance.

[Main Product]

1. ME7848A Opto-Electronic Network Analyzer 2. MP2110A BERTWave Sampling Scope 3. MS9740B Optical Spectrum Analyzer 4. MT1040A Ethernet Tester 5. Sensing and Devices


**MS9740B Optical Spectrum
 Analyzer**

Anritsu Sensing Devices

**ME7848A Opto-Electronic
 Network Analyzer**

Deviser Electronics Instrument Co.,LTD.
DEVISER
**Booth
DC-05**

Deviser is a leading supplier of measuring equipment in 5G, Fiber Optics, EMF Safety, TV&Broadcasting, RF Test & Measurement sectors.

[Main Product]

Optical and Fiber Communication T&M Solutions: Optical Spectrum Analyzer Tunable Laser Remote Fiber Testing System OTDR OLTS CWDM/DWDM Channel Analyzer 10G PON Power Meter Optical Power Meter Optical Light Source.


**AE8600/8700 Optical
Spectrum Analyzer**

**TLS1056 High-performance
Tunable Laser**

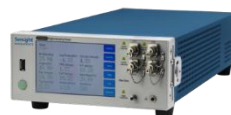
**AE8560 Handheld Optical
Spectrum Analyzer**
chengdu sufastech technology co.,ltd

**Booth
EH-51**

CHENGDU SUFASTECH TECHNOLOGY CO., LTD. was established in 2018 and is a high-tech enterprise specializing in microwave and optical communication testing and measurement instruments, chip packaging equipment, and comprehensive services. It devotes itself to the upstream, midstream, and downstream of information related scientific research and industry, timely following up on the world's cutting-edge scientific research directions, rapidly transforming its own technology and service capabilities, based on good faith, and win-win cooperation with partners.

[Main Product]

optical testing instrument, chip test equipment, chip packaging equipment, microwave photonic devices.


**110G high frequency dual-
port probe**

30G/50G sampling scope

**Laser Linewidth and Phase
Noise Tester**

Advanced Dicing Technologies Co., Ltd (Zhengzhou)



Booth
EF-03

Established in Israel, ADT is a global leading supplier of semiconductor dicing equipment and solutions. In 2019, GLTech completed the acquisition of 100% equity of ADT jointly with several Chinese funded institutions. Thus, Advanced Dicing Technologies Co., Ltd (Zhengzhou) was founded, known as new ADT. It takes Zhengzhou, China as its headquarter, R&D and production base to layout its global business. New ADT continues to provide total solutions of dicing application for customers all over the world.

[Main Product]

ADT provides total solutions for dicing application including dicing machines, consumable parts and accessories such as blades and flanges and solutions for dedicated application. We also provide peripheral machines to suit dicing machines for various usage at customer side. Our main product, dicing machines, covers a wide range of types from single spindle automatic type to dual spindle fully-automatic type. It is used not only to dice wafers and packages, but also ceramics, glass, and other materials as well.



6110



Dicing Blades

COMPOUNDTEK PTE LTD

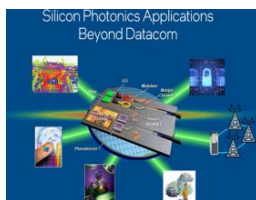


Booth
EH-17

CompoundTek is a global foundry services leader in emerging silicon photonic solutions (SiPh) delivering revolutionary semiconductor applications designed to meet critical requirements in high bandwidth and high data transfer solutions. The company's know-how ranges from proprietary fabrication process/ wafer level optical testing expertise to design support for end product manufacturing.

[Main Product]

1. CompoundTek's PDK for silicon wafer fabrication service
2. CompoundTek's know how on wafer edge coupling testing & standard vertical grating coupling testing service
3. Pre & Post fab services eg. Copper pillar process, dicing...etc.



Silicon photonics wafer
fabrication service

MRSI AUTOMATION(SHENZHEN)CO.,LTD

**Booth
EF-23**

Mycronic AB is a NASDAQ Stockholm listed Swedish high-tech company engaged in the R&D, manufacture and marketing of equipment for the electronics industry. MRSI SYSTEMS, part of Mycronic Group, is the global leading manufacturer of die bonding systems. MRSI Automation (Shenzhen) Co., Ltd. is a wholly owned subsidiary of Mycronic AB, it's a strategic step of MRSI Systems to localize its business in China. It is co-located with MRSI Shenzhen Demo Center, using MRSI brand. MRSI will also develop localized application products to provide customers with more package application and better services.

[Main Product]

MRSI'S Die Bonding Solution MRSI-S-HVM Submicron Die Bonder MRSI-HVM1.5Micron Die Bonder MRSI-H1.5 Micron Die Bonder MRSI-705 5Micron Die Bonder MRSI-M3 3Micron Die Bonder.


**MRSI-A-L Auto Aligner
(pending release)**

MRSI-705 5-MICRON FLIP-CHIP DIE BONDER (HF High Force option)

MRSI-M3 3-Micron Die Bonder
NINGBO SHANGJIN AUTOMATION TECHNOLOGY CO.,LTD

**Booth
DB-29**

Ningbo Shangjin Automation Technology Co., Ltd. is a technological enterprise focusing on the research, development and manufacture of semiconductor packaging equipment and process technology, precision automation equipment. Company is mainly engaged in development, production and sales of wire bonder, application field including Integrated Circuit, Discrete Device, Optical Communication Device, Laser Device, Microwave Component, Sensor, MEMS, Intelligent Instrument Specialized Device、New Energy Power Device and Power Semiconductor Device, etc.

[Main Product]

There are several wire bonding machines on sale. They are multi-functional wire bonders, fully automatic ball wire bonder, automatic deep access wire bonder and fully automatic heavy wire wedge bonder. These machines are mainly used on field of IC, discrete, optical communication, laser and MEMS.


Taurus-Heavy wire bonder

**S450-BW(Ball-Wedge Bonding)
MULTI-FUNCTIONAL WIRE
BONDER**

**BRT6000Plus-AUTOMATIC
WIRE BONDER**

Energy Intelligent Technology Wuxi Co.,Ltd



Booth DB-30

ENERGY INTELLIGENT established in September 2016, is a semiconductor packaging and testing equipment manufacturing company. The company's team consists of outstanding management and technical research and development personnel from renowned universities such as Xi'an Jiaotong University, Harbin Institute of Technology, and Northwestern Polytechnical University, as well as the semiconductor equipment industry. The company focuses on serving advanced packaging fields such as communication modules, power modules, sensor modules, and camera modules.

[Main Product]

As a national-level Little Giant enterprise specializing in precision and emerging industries, the company has successfully developed eight series of products: HCSMTEX/WB/A. These products cover three major fields: optical communication, power devices, and sensors. The main types of equipment include die bonder and die sorter. The die bonder machines have a maximum placement accuracy of 3um, and the M18 MAX equipment integrates the company's patented award-winning design, becoming the flagship device of the company.



S17 Die Sorter



T17 High precision Die bonder



A18 Automated Optical Inspection Machine

SUZHOU BOZHON SEMICONDUCTOR CO.,LTD



Booth EE-21

Suzhou Bozhon Semiconductor Co., Ltd. is a global semiconductor equipment R&D and manufacturing company. With over 20 years of technical expertise, the company is dedicated to providing customers with leading and stable advanced process and inspection equipment in the semiconductor industry. Suzhou Bozhon Semiconductor is committed to becoming a leader in the Chinese semiconductor industry, promoting the development of advanced processes and industrial upgrades in the semiconductor industry through R&D and product innovation in micrometer, sub-micrometer, and nanometer-level technologies.

[Main Product]

Main Product Series: MicroStar Series - Fully Automatic High Precision Eutectic Die Bonder CesiStar Series - AOI Inspection Machine FastStar Series - High-speed High-precision Epoxy Die Bonder.



FastStar Series - High-speed High-precision Die Bonder



MicroStar Series - Fully Automatic High Precision Eutectic Die Bonder EF8621



MicroStar Series - Fully Automatic High Precision Eutectic Die Bonder EH9721

SINOBONDER Technology Co., Ltd

**Booth
DA-06**

SINOBONDER is committed to the development and sale of automation equipment for the coupling, assembly, and testing of optical devices. Currently, we can provide customers with automation equipment such as silicon photonics coupling machines, coaxial component(TOSA/ROSA/BOSA) coupling machines, COB coupling machines, Micro-Lens coupling machines, fully automatic filter mounting machines, die bonder (3 μm), optical image measurement instruments, and other automation devices. Our equipment is at the forefront of the industry in terms of efficiency, accuracy, stability, and other aspects.

[Main Product]

1. Dual Six-Axis Silicon Photonics Coupling Machine (For coupling of 400G&800G DR4/DR8/FR4/SR8 Lens&FA).
 2. Coaxial Optical Component Coupling Machine (For coupling of TOSA/ROSA/BOSA at 25G and below).
 3. COB Coupling Machine (For coupling of 100G SR4/100G CWDM4/25G SR/10G SR/AWG/FA...).
 4. Micro-Lens Coupling Machines (For coupling of 100G LR4/100G CWDM4...).
 5. Die Bonder with 3μm (Tailor-made for the optical communication industry).
 6. Fully Automatic Filter Mounting Machine (Specialized in mounting 45-degree and 0-degree filters in the BASE).


**Dual Six-Axis FA Coupling
Machine**

**High-Precision Die Bonder
(3μm)**

**Dual-Station PD Coupling
Machine**
**Suzhou WUSHI Intelligent Technology
Co.,Ltd**

**Booth
EE-12**

Wushi Microelectronics Suzhou Co., Ltd. focuses on the development of wafer back-end bonding de-bonding equipment, bonding glue and supporting materials. With a pragmatic and innovative attitude, it provides "turnkey"-level solutions for customers in the semiconductor industry. The company is founded by senior researchers in the field with more than 10 years of experience And with advanced R&D, design and production capacity, our products are at the leading position in China. The company is ISO9001 certified and its products have Semi S2 certification certifications.

[Main Product]

WUSHI Fully-auto platform for temporary bonding and debonding, are designed for process development as well as high volume manufacturing, which is compatible to wafer size from 50mm to 200mm. WUSHI also provide manual(semi-auto) solution include integrated coater, hot plate and wafer bonder, debonder and cleaner for various of application requirements. With flexible configuration, WUSHI tools are able to process all commercially available temporary bonding adhesives. WUSHI solution had also been validated in many different production customers, working in the market such as SiC, III-V, Si based


AIO debonder/AIO bonder

Innofocus Photonics Technology Pty Ltd

**Booth
EG-04**

Innofocus Photonics Technology is a world-leading deep-tech company focusing on the development of intelligent laser nano-fabrication equipment and holographic imaging equipment, miniature optoelectronics components & micro-optic devices manufacturing, and advanced manufacturing applications, all of which aim to drive progress into the era of photonics-based nanomanufacturing. We are also deeply committed to developing disruptive photonic solutions that are of high resolution, high precision, high yield, high performance, catering to research/industrial requirements across various disciplines.

[Main Product]

Innofocus developed the world's first intelligent laser nanofabrication system with unique in-situ 3D refractive index imaging functionality, namely HoloView 3DRI. We have also continued to develop 6 different nanofabrication models - the nanoLAB product family, to empower research in micro-optic devices and optimization for advanced photonic devices. Furthermore, Innofocus have developed Ultrafast Fibre Bragg Grating (UFBG) devices, that are world-leading miniaturised optical devices fabricated by femtosecond ultrafast laser pulses, featuring high performance, consistency and customisability..


**nanoLAB H3D intelligent laser
nanofabrication system**

**nanoLAB Roll-to-Roll FBG (r-FBG)
NanoManufacturing Equipment**

**UFBG_S: Ultrafast FBG -
Standard Reflectivity & Ultra-
high Temperature Stability**
**HAITUO INSTRUMENT (JIANGSU)
CO.,LTD**

**Booth
EE-01**

Haituo Instrument (Jiangsu) Co., Ltd. is a comprehensive high-tech enterprise specializing in the design, research and development, manufacturing and sales of high-end simulation climate environment test equipment, semiconductor live test system and other products. Founded in 2005, the company has a senior R&D team in the industry. With its own brand "HAITUO", the products are widely used in semiconductor, chip, 4G/5G optical communication, display, new energy, automotive electronics, solar photovoltaic, national defense and other fields.

[Main Product]

The main products include rapid temperature change stress screening test chamber (ESS series), high and low temperature and humidity test chamber, constant temperature and humidity test chamber, walk-in environmental chamber, thermal shock test chamber, new Internet of Things temperature cycle chamber, accelerated life testing machine, live aging test chamber, CASS test chamber, precision aging test chamber, rain test chamber, electromagnetic vibration test system and customized test equipment according to customers' special specifications.


Thermal Shock Plus

EDMUND OPTICS SINGAPORE PTE LTD
**Booth
EK-27**

For over 80 years, Edmund Optics® has been a leading global optical solutions provider that has served a variety of markets including Life Sciences, Biomedical, Industrial Inspection, Semiconductor, R&D, and Defense since 1942. The company employs 1,250+ employees across 18 global locations and continues to expand. -80 years of Optical Expertise -4 Imaging Centers -260+ Engineers -8 Factories, up to 284,000 of manufacturing space -More than 34,000 Optical Components in stock, ready to ship -800+ Unique Imaging Lenses -170,000+ Imaging Lenses Produced Per Year.

[Main Product]

Edmund Optics manufactures a wide variety of optical products including imaging optics, mirrors, light & illumination, laser optics, optomechanics, microscopy and more! Visit our website to learn more about our products <https://www.edmundoptics.com.sg/>.


**Precision Glass Polished
Aspheric Lenses**

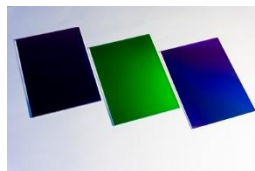
**120i Infinity Conjugate
Objective Lens**

Laser Optics
MATERION SINGAPORE PTE LTD
**Booth
EF-30**

Materion is a global advanced materials company, dedicated to providing solutions that enable our customers technologies and drive their growth. Our products include precious and non-precious specialty metals, precision optical filters, inorganic chemicals and powders, specialty coatings, specialty-engineered beryllium alloys, beryllium, and beryllium composites, and engineered clad and plated metal systems. The Materion business is structured to enhance our ability to provide customers with innovative, best total-cost solutions.

[Main Product]

A large product portfolio including precise optical coatings, precise optical components, optical subsystems, and wafer-level optical packaging, used for multiple markets including projection display, smartphone, LiDAR, HUD, intelligent headlights, life science, instrumentation, industrial automation, and other markets.


LiDAR Window

**Laser Polarized Dichoric
Mirror**

LiDAR Polygon Mirror

QINGDAO NOVELBEAM TECHNOLOGY CO., LTD.
NovelBeam
TECHNOLOGY

Booth
EK-17

NovelBeam constantly innovates on optical processing, high-energy optical coating, LED thermal management, LED driving technology, and customized illumination and imaging system design. Optical Division of NovelBeam has been adapting and improving optics technology for micro optics, IVD, stomatology, industrial laser and many other applications, offering design solutions and rapid R&D prototyping as well as high volume manufacturing with repeatable performance and reliability.

[\[Main Product\]](#)

Filters, fluorescent light source, F-theta scan lens, optical lenses, precision optical products.



Laser Welding, Laser Cutting



Multi-band Fluorescent Light Source



High Precision Optical Filter

Zhongshan Mavinlens Optical Co.,Ltd.

Booth
FR-02

Founded in 2006, Mavinlens successfully registered trademarks in China and Japan. Mavinlens is a technology-leading enterprise in the field of free-form surface optics and aspheric optics in China. It is committed to the research, development, production and marketing of the core technology products related to optical information gathering and optical information restoration. It specializes in providing overall "optical core" solutions with Optical-electromechanical Integration.

[\[Main Product\]](#)

Products cover laser rangefinder optics, night vision imaging optics, digital microscope optics, toy optics, micro projection optics, and wearable optics (including freeform VR&AR opto-mechatronics display modules) and so on.



AR optics



laser rangefinder



projector optics

GI Ai PHOTONICS CO., LTD.
**Booth
FM-37**

GiAi Photonics co.,Ltd was established in 2008 , which is a high-tech enterprise focusing on R&D, production and sales of optical components and opto-mechanical systems. R&D and manufacturing centers located in Shenzhen, Anshan and Nanjing respectively, meters and more than 500 employees. It is one of the largest optical companies in China. Products are widely used in biomedical, medical beauty, lidar, machine vision, biometrics, infrared sensing, robotics, smart home, intelligent driving systems, laser equipment and other fields.

[Main Product]

Main Products include filters, lenses, prisms, cylindrical lenses, aspherical components, lens design and assembly, etc.



**Band pass optical filter for
Aesthetic system**

Nano Macro Optics Co., Ltd.
**Booth
EJ-35**

Nano Macro Optics Co.,Ltd. (NMOT) is a high-tech enterprise specializing in providing optical technology solutions and producing optical filters, optical prism and lenses, and is also a specialized and sophisticated technology enterprise in Shenzhen. The company is located in Shenzhen Guangming District Hanhaida high-tech Industrial Park, has built more than 5000 square meters of workshop and thousand grade dust-free purification workshop, as well as a complete set of high-precision laser technology optical products follow-up processing production line.

[Main Product]

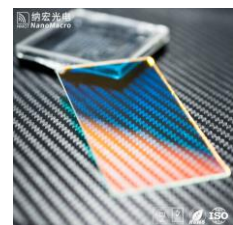
Our company produces various of highly precise optical components including: optical filters and optical lens. Our main products are bandpass filters, PCR fluorescence filters, biochemical filters, LiDAR filters, laser protective mirrors, reflective mirrors, neutral density (ND) filters, longpass filter, shortpass filter, polarizer, IR PMMA sheets, dichroic filters etc. Customized service is available.



Bandpass Filter



Fluorescent PCR filter



Longpass filter

ECOPTIK(CHANGCHUN)LTD

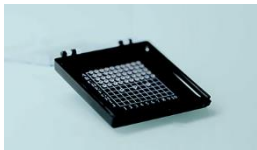
ecoptik

Booth
FP-09

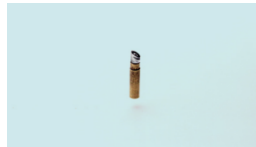
Ecoptik (also known as BRD Optical) was founded in 2021, and is located in the city of Changchun-the optic base of China with a beautiful view and profound optical culture. The concept of "first, customer first" has been gradually established in scientific research, medical, aerospace, and national Anti-monitoring, biological engineering, astronomical observation, intelligent robots, new energy and other fields of integration Advantages, to provide customers with competitive high-quality precision optics.

[Main Product]

Ecoptik mainly deal with optical lenses, prisms, windows, filters, cylindrical lens, optical domes, aspherical lens, mirrors and others.



micro lens



endoscope objective



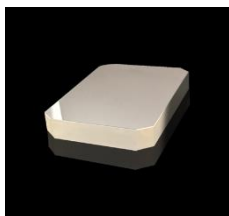
spherical lens

L-Chaser Optics Ltd.Booth
FP-12

L-Chaser Optics Ltd. is a professional manufacturer specializing in R&D and production of high precision nano optical components and opto-mechanical components. Located in Changchun, capital of Jilin Province, which is known as Optical City, Aerospace City and Automobile City of China, L-Chaser Optics Ltd. as an intelligent maker has whole-sequence production capability in optical processing and detecting.

[Main Product]

Aspherical Lens High Precision Lens Large Aperture Plano Mirror Cube Mirror Reticles Infrared Product Prism and Plano Mirror Opto-mechanical Components



Optical Mirror



Reticles



Opto-mechanical Component

asphericon GmbH
**Booth
FM-21**

As an independent and recognized specialist, asphericon is the technology leader in the field of optical systems. Production is based on a proprietary and patented technology for controlling CNC grinding and polishing machines. This technology is unique in the world and allows the production of small quantities as well as large series with high precision. asphericon supports its customers from optical design, production and coating, full-surface interferometric measurement and documentation to the assembly of optical components and their optical characterization.

[Main Product]

Optical Components (Aspheres, Spheres, Axicons, Acylinders, Freeforms, Monoliths, Multiplets, Doublets, MountedOptics) Optical Systems (BeamShaping, High Power Systems, High-NA Objectives, Durable Systems, Miniaturized Systems) Services (Assembly, Optical/Mechanical Design, Laser Marking, Edge Varnishing, Refinement, Characterization, Coating, Metrology) .


TopShape LD / LDX

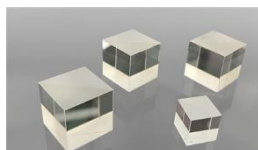
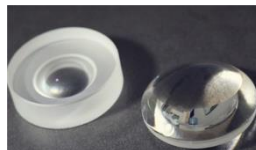
**UV/VIS/IR Aspheric Optics /
Mirrors**

Optical Design
Changchun Sunday Optics Co.,Ltd
**Booth
FQ-01/FQ-02**

Changchun Sunday Optics Co., Ltd, was founded in 2010, located in optical base Changchun city. With branches in Changchun, Jiangsu, Nanjing, Sunday Optics mainly produces spherical lens, aspheric lens, prisms, high precision window, filter, coating, laser lens, optical design and optical assembly. The minimum size of the lens can be 0.1mm, and the tolerance of prism's 90-degree angle can be 2' '. Equipment: Sunday Optics owns milling and grinding machine, polishing machine, ring throwing, glue machine, coating equipment. These equipments make complete production process of cutting, grinding.

[Main Product]

spherical lens, cylindrical lens,aspheric lens, ball lens, achromatic lenses, corner cube prism, penta angle prism, right angle prisms, glass prism, collimator lens, optical dielectric mirror, optical coating, optical window, narrow bandpass filter, long pass filter.


**Polarizing Beam Splitter
Cube**

Aspherical lenses

Collimator Lens

HuBei New HuaGuang Information Materials Co., LTD

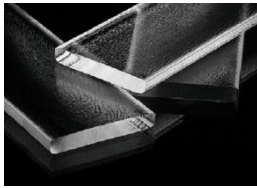


Booth
FT-11

NHG was founded in 1969 and has the history of over 50 years. NHG is the professional photoelectric material research & manufacturing enterprise, one of the largest special optical materials manufacturing bases in China. The product market share stably ranks in the front row of industry. Our products are widely applied to fields of industrial application and consumer electronics such as projectors, digital cameras, video surveillance, automotive cameras, smart wearable device, thermal infrared imager, etc.

[Main Product]

Colorless optical glass (Supply types: strip, block, direct & re-heated pressing blanks, bars, cutting discs, coarse grinding materials, etc.), Mid-infrared/Far-infrared optical glasses, ZnSe crystals, laser glasses, optical fiber preforms, eyeglass optical materials, aspherical precision molding, infrared lenses.



Optical glass material



Optical components



Infrared lens

Changchun Glitter Optics Co., Ltd.

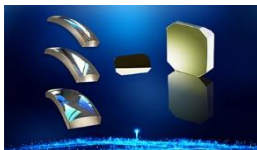


Booth
FP-08

Changchun Glitter Optics Co., Ltd specializes in optical components production and optical lens design. These products are used in optical imaging instruments, optical testing instruments, medical instruments, lasers and so on. The company's core technical team has been engaged in optical technology research for many years in domestic and foreign optical enterprises. We are well experienced in optical technology. We can undertake the design and production of various high-precision optical products.

[Main Product]

Cylindrical lens, spherical lens, prism, window, mirror, filter and so on.



toric lens



prism



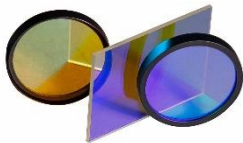
crystal

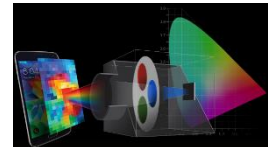
Chroma Technology GmbH
**Booth
FN-16**

Chroma Technology Corp. is an employee-owned company that specializes in the design and manufacture of precision optical filters and coatings. The most advanced coating techniques have been developed that provide the greatest accuracy in color separation, optical quality and signal purity economically for your OEM applications.

[Main Product]

State of the art interference filters from 190 nm up to 3.5 . Custom and catalogue design of band- long- and short-pass filters and dichroic mirrors. Shape and size according customer specification. Our products fulfil requirements for machine vision, remote sensing, multi/hyper-spectral imaging, microscopy, astronomy and other photonic applications.


Raman Optical Filters

Machine Vision Filters

**CIE Tristimulus Filters for
color matching applications**
**TANGSHAN WANSHIHE ELECTRONICS
CO., LTD.**
**Booth
FQ-18**

Tangshan Wanshihe Electronics co., LTD., established in 2003, is located in Hebei province, Tangshan yutian county, Linancang South Eastern Road , covers an area of 15000 square meters, plant more than 6500 square meters, more than 100 employees, the company is engaged in monitoring crystal and sensor design, production and sales, the national high-tech enterprises, in 2018. We participated mainly in monitoring with quartz crystal industry standards, products exported to South Korea, Japan, Taiwan, the European Union, the United States and other countries and regions.

[Main Product]

monitor crystals and other QCM sensors.


**Monitor Crystals QCM
sensors IR windows IR filters
Laser sensors**

**Monitor Crystals QCM
sensors IR windows IR filters
Laser sensors**

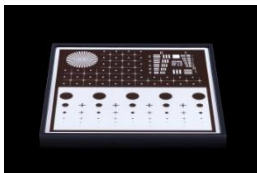
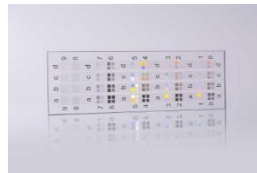
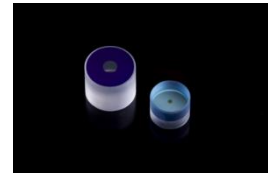
**Monitor Crystals QCM
sensors IR windows IR filters
Laser sensors**

IMT Masken und Teilungen AG
**Booth
FM-15**

IMT precision on and in Glass since more than 60 years Located in Switzerland with own equipped Fab IMT has its roots in the microstructuring of metallic coatings on planar optical substrates. Over the years, we have continually added to this core expertise with complementary technologies. Our solutions are now used in the semiconductor industry, medical technology, biophotonics, sports optics and optical measurement technology. In addition to applications focussing on optical functions, the IMT product range also includes components with electronic and/or mechanical function.

[Main Product]

PRODUCTS: Microstructured optical coatings Pinhole arrays, spatial filters Biochips, microfluidic, flow cells Optical gratings Reticles Calibration standards Encoder discs Photomasks.


Calibration Components

**LifeScience&Diagnostics
MEMS**

Nipkow and other Discs
Zhejiang Lante Optics Co., Ltd.
 LANTE OPTICS
蓝特光学

**Booth
FT-06**

Zhejiang Lante Optics Co., Ltd was formerly known as Jiaying Lante Optics Coating Factory, founded in 1995. The company is located in Honghe Town, Xiuzhou District, Jiaying City, in the center of Shanghai and Hangzhou. It covers an area of 120,000 square meters and a building area of 160,000 square meters. There are more than 2500 employees. The company successfully passed ISO9001 quality system certification, ISO14001 environmental system certification, IATF16949 system certification of automobile industry and introduced 6S quality assurance system.

[Main Product]

It mainly produces glass aspheric lenses, prisms, lenses, glass wafers, coating and lens assembly, and has been involved in the processing and manufacturing of optical products in the fields of traditional optics, photoelectric display, photovoltaics, automobiles, lighting, optical communication, semiconductors, consumer electronics, medical care, virtual/augmented reality and so on.


Glass molded aspheric lens

AR/VR

Optical prism

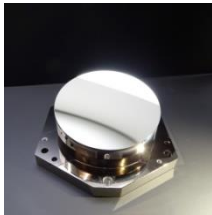
TNO

TNO
innovation
for lifeBooth
FN-18

TNO – the Netherlands Organisation for Applied Scientific Research – has the mission to be the crucial link from Research & Development to the commercial exploitation of knowledge in terms of new products and services. TNO develops, designs, builds and demonstrates optical instruments (including integrated photonics) in the Space, Semiconductor and Medical domain. TNO Centre for Optics Manufacturing manufactures customer-specific high end optical components – mirrors and lenses – for innovative and compact systems, leading to new products.

[Main Product]

Design and manufacturing of High end freeform optical mirrors, including optical coatings. Design and manufacturing of laser satellite communication demonstrators. Design and manufacturing of optical instruments for Semicon and Medical metrology. Integrated photonics based optical sensors and quantum sources.



Freeform mirror for space applications

SUZHOU WENDI PHOTOELECTRIC
TECHNOLOGY CO.,LTDBooth
EJ-25

Wendi Optoelectronics Technology Co., Ltd. was founded in 2008 is the world's leading provider of optical filters and optical system solutions. We have always been committed to the development and manufacturing of high performance interference filters, and constantly improve the spectral performance and testing standards of products, to provide strong support for scientific exploration and research, including professional technical support and sample trial services. Our products provide professional solutions for optical communications, life sciences, manufacturing, aerospace & other industries.

[Main Product]

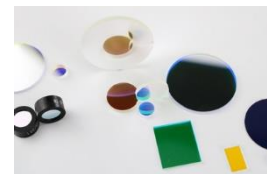
Optical Communication Filter Infrared Filters Fluorescence Filters Biochemical Analyzer Filters Machine Vision Filters Lens.



Biochemical Analyzer Filters



Fluorescence Filters



Raman Filters

FUZHOU WTS PHOTONICS TECHNOLOGY CO., LTD.
**Booth
FN-12**

WTS PHOTONICS provide our customers with the superior quality optics products and precision Laser Optics products ,serves a global markets including Laser, Electronics, Telecommunication, Thermal Imaging, Infrared Sensor for Industrial, Medical and Scientific Research applications. WTS PHOTONICS owns strong production capability in our modern workshops, At present, we employ 150 staff, among whom one third are professionals taking the responsibility of R&D and directing the production practice. equipment includes a Zygo GPI-XP interferometer, Spectrophotometers, Perkin-Elmer Lambda 900, a rad.

[Main Product]

Flat optics: Windows, prisms, double side polished, one side polished products Lenses: Achromatic lenses, Cylindrical lenses, Aspherical lenses Filters: Band pass filters, Long pass, short pass filters, ND filters Waveplate, beamsplitters, PBS, NPBS, Coating service: AR coating, Filter coating, HR coating for high damaged threshold.



**Optics Lenses products used
for UV-VIS-IR application**



Optics Filters



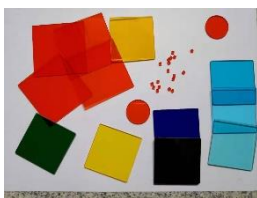
**Optics Lenses products used
for Machine vision, Industry
laser and medical**

HaiAn Educational Optical Lens Factory
**Booth
EH-15**

Haian Education Optical Lens Factory was founded in 1982, with a factory area of 15000 square meters and a history of 40 years of development, research and production of optical precision components. The company has passed the ISO9001:2015 quality management system certification, established a complete quality control and quality assurance system, and produced related products for military enterprises to ensure consistent excellent quality and on-time delivery to all customers.

[Main Product]

Our main products include over 100 optical components, including UV glass, infrared glass, color temperature conversion filters, thermal glass, bandpass filters, gray mirrors, borosilicate glass, colorless glass, quartz glass, B270, UV mirrors, polarizers, and more.



Optical glass components

Aura Optics Group Co.,Ltd.
**Booth
EJ-28**

Aura Optics Group Co, Ltd. was established on June 27,2007. The company focuses on the R&D and production of synthetic quartz glass and produces the highest level of quartz glass in China. Aura Optics has focused on the production of synthetic quartz glass (Class I, JGS1, ZS). In 2005, it produced the first quartz glass with a size of 230x1570 mm in China, pioneering the domestic vertical deposition for the production of UV quartz glass. As the forerunner, the company has changed the long-term backward situation of industry technology in China, and promoted technology development in China.

[Main Product]

Quartz glass is a special industrial glass. It is vital in high-tech fields for its technical properties. While natural quartz glass is produced from quartz sand mined in a quartz mine, synthetic quartz glass is made of silicone-containing chemicals by hydrogen-oxygen flame hydrolysis reaction. The synthetic quartz glass is much purer compared to natural quartz glass. The former is as pure as 99.9999%, with excellent optical, mechanical and thermal properties, making it indispensable for high-tech products.


IC Photomask Substrate

Quartz Glass Wafer

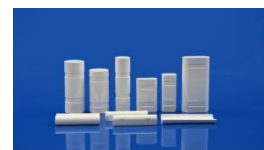
Synthetic Quartz Ingot
Xiamen Innovacera Advanced Materials Co.,Ltd
**Booth
FM-30**

An advanced materials company providing technically complex, bespoke solutions to its customers, from design, rapid prototyping to volume manufacturing, enabling them to address global trends such as energy demand, healthcare and environmental sustainability.

[Main Product]

Alumina Oxide Ceramic, Zirconium Oxide Ceramic, Boron Nitride Ceramic, Silicon Nitride Ceramic, Machinable Glass Ceramic and other advanced materials. Through different manufacturing processes, we supply metallized ceramic components, Ceramic to metal, alumina heater, ceramic reflector components and other ceramic components as request.


Metallized ceramic

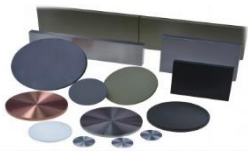
Ceramic Brazing Solutions

Ceramic laser reflectors

Fuzhou Nuoxin Advanced Material Co., LTD
**Booth
FN-10**

Nuoxin Advanced Material is an enterprise with 10 years experience in developing and manufacturing sputtering targets and evaporation materials. With its 10,000 square meters of workshop which is equipped with advanced machines and apparatus and R&D center, Nuoxing manufacture and supply more than 200 kinds of compound sputtering targets and evaporation materials to global coating manufacturers. Nuoxing adheres to the principle of "Meeting customers' requirements, innovating constantly, pursuing excellence" and is committed to supporting semiconductor, photoelectric, solar manufacturers..

[Main Product]

Compound sputtering target, Metal sputtering target, Evaporation material, Crucible and evaporation boat.


Metal Sputtering Target

Compound Sputtering Target

Evaporation Material
Baotou Haorui Rare Earth Co., Ltd.
**Booth
FQ-16**

Baotou Haorui Rare Earth Co., Ltd. which was founded in 1993(formerly Baotou Solvay Rare Earth Co., Ltd.) . The productions are used in optical glass, LCD, and other precision and high-end fields. The company produces polishing powder and polishing slurry, which have the advantages of strong stability、 high cutting rate、 good surface quality、 long service life、 and good suspension. Products are exported to Europe, America, Japan, South Korea, Southeast Asia and other countries and regions. Products can meet the diversified and accurate polishing needs of downstream application enterprises.

[Main Product]

HaoruiTM (Befor CerTM) The two series of polishing powder has advantages of high cutting rate, good surface quality, long service life, and good suspension. SL series polishing slurry has advantages of low scratch, good surface roughness, and easy cleaning, which are widely used in polishing fields such as blue glass filters, advanced generation liquid crystal glass, and so on.


White Polishing powder

White Polishing Slurry

Red polishing slurry

DONGGUAN KAIYONG PHOTOELECTRIC TECHNOLOGY CO.LTD / BEIJING FUXINGKAI PHOTO-ELECTRIC TECHNOLOGY CO., LTD



Booth
FL-10

Established for over 10 years, Dongguan Kaiyong Photo-Electronic Tech Co., Ltd is the subsidiary factory to Beijing Fuxingkai which specializes in R&D and production of optical coating material. So far, we have two production bases both in north China and south China. By good quality and stable production capacity, we won high praise from the customers domestically and overseas. Our product portfolios cover fluorides, compounds and mixture.

[Main Product]

Fluoride: MgF₂CaF₂BaF₂LaF₃YF₃CeF₃Na₃AlF₆YbF₃PrF₃NdF₃

Oxide: Al₂O₃SiO₂TiO₂TiO₂Ti₂O₃Ti₃O₅Ti₄O₇ZrO₂MgO Ta₂O₅CeO₂Y₂O₃HfO₂Sc₂O₃Nd₂O₃Nb₂O₅W₂O₃ZnO Bi₂O₃Sb₂O₃

Compounds: Al₂O₃/SiO₂ZrO₂/TiO₂Ta₂O₅/ZrO₂Ta₂O₅/TiO₂Al₂O₃/ZrO₂ZrO₂/Y₂O₃In₂O₃/SnO₂(ITO)AL₂O₃/MgO SiO₂/Cr FG-1La₂Ti₂O₇FG-2FZ-1FZ-2FG-3FD-1

Other: ZnS GdS ZnSe.



Titanium(V) Oxide



tantalum oxide



ZrO₂&TiO₂ mixture

Nanjing Meixuan photoelectric materials Co.,Ltd



Booth
EJ-07

The company specializes in the production and sales of vacuum coating materials and coating machine accessories. At present, we mainly serve industries such as precision optics, optical communication, glasses, lighting, decoration, display panels, LED, OLED, CIGS, semiconductors, artificial crystals, ZBLAN, high-power lasers, etc. Our company has established long-term friendly cooperative relationships with multiple enterprises with strong strength, reasonable prices, and excellent services. Nanjing Meixuan Optoelectronic Materials Co., Ltd. warmly welcomes you to visit and negotiate business.

[Main Product]

Products include: zirconia, silicon dioxide, silicon monoxide, magnesium fluoride, chromium, nickel, aluminum oxide, titanium dioxide, titanium pentoxide, ytterbium fluoride, lanthanum titanate, tantalum pentoxide, indium tin oxide ITO, waterproof film, superhard waterproof, tungsten boat, molybdenum boat, tungsten twisted wire, electron gun wire, ion gun wire, indium wire, crystal oscillator, probe accessories, electron gun, ion gun ceramic, ion splitter, heating lamp tube, silicon vacuum grease, etc



ZrO₂



H4



Ta₂O₅

AZURE PHOTONICS CO., LTD.

**Booth
FN-07/FN-08**

AZURE Photonics Co.,Ltd, is an ISO 9001:2015 certified leading worldwide manufacturer of customized optical components and optical assemblies. With an innovative facility based in Fuzhou(China) since 2000 and global sales distribution and support at key global locations, AZURE utilizes advanced fabrication equipments and state of the art testing instrumentation and methods to turn concepts and prototypes into high quality cost effective solutions scaled up to serial production.

[Main Product]

AZURE manufactures a wide range of off-the-shelf and custom objective lenses working with area scan cameras/ line scan cameras as well as OEM optics-lenses (spherical,cylindrical), mirrors, windows, filters, prisms and beamsplitters. Our experienced team of technical experts also offer optical and mechanical design service for the assemblies from the very beginning your project starts. Our products are widely used in factory automation, logistics automation, motion capture systems, ITS(intelligent Transport System), life science, biometrics and other high-tech industries.


AZURE UV Lens

AZURE SWIR Lenses

AZURE Cylindrical Lens
HOLOEYE Photonics AG

**Booth
FN-20**

HOLOEYE is providing products and services in the fields of Spatial Light Modulators (SLM) for phase and amplitude modulation, a broad range of standard Diffractive Optical Elements (DOE) as well as customized design and fabrication services for Diffractive Optics and LCOS microdisplay components for monochrome and color projection applications. We provide highly specialized, most flexible and diversified standard solutions for academic and industrial R&D and offer the highest level of component customization, custom developments, and volume production for industrial integration.

[Main Product]

Spatial Light Modulators Diffractive Optical Elements LCOS Microdisplays.


**New broadband version of
analog ERIS Spatial Light
Modulator**

**New PLUTO-2.1 SLM Version
for SWIR Wavelength**

Custom Diffractive Optics

NEW IMAGING TECHNOLOGIES (NIT)
**Booth
FN-17**

New Imaging Technologies (NIT) was founded in 2007 with the goal of designing and producing image products based upon patented high dynamic range response sensors. NIT is now a vertically integrated source for SWIR sensors and cameras, with in-house unique manufacturing technologies such as small pitch high yield hybridization capacity, photodiode arrays, camera electronics, and software. SWIR InGaAs product portfolio ranging from small low-cost SWIR sensors, high-speed line arrays and large format focal plane arrays VGA and SXGA.

[Main Product]

Our range of SWIR cameras and sensors are all designed and built in our factory, using proprietary and innovative manufacturing platforms at our facility. NIT's SWIR InGaAs product portfolio ranging from small low-cost SWIR sensors & cameras, high-speed line arrays and large format focal plane arrays, from qVGA to HD resolution with multiple standard video interfaces


**SenS 1280 - HD resolution
SWIR camera**

**WiDy SenS - Unique dual-
response SWIR camera**

**HiPe SenS - High
performance air-cooled fan
SWIR camera**
Zhongshan Jinyun Photoelectric Co., Ltd.
**Booth
FT-03/FT-04**

Shenzhen Yongtai Optoelectronics Co., Ltd. was founded on May 4, 2011, and began to forge ahead in the optical industry. The first factory, Nanyang Yongtai was established in 2013, making Yongtai a professional high-tech enterprise specializing in the development, manufacturing, and marketing of optical products. Subsequently, four factories were established as production bases. Established for over ten years, Yongtai currently has over 600 employees in terms of scale. In terms of technology, Yongtai has accumulated advanced technology and mature production processes in lens design & processing.

[Main Product]

The products mainly include optical lenses (security lenses, automotive lenses, wide-angle lenses, etc.) and radar receivers. Covering multiple application scenarios such as security monitoring, in-car imaging, laser scanning recognition, smart homes, and medical equipment.


YT-1730

YT-F65JG2

YT-2818

JIANGXI TRACE OPTICAL CO.,LTD
**Booth
EJ-24**

Trace Optical specialized in R&D, manufacturing and sales of various fixed & zoom optical lenses. We have a R&D center in Long Nan (Ganzhou) and business department in Shenzhen. Based on optical design, We've been focusing on the field of wide-angle optics for 12 years and has more than 80 optical patents. We also focus on the fields of vehicle imaging, car DVR, smart home, Video Conference, 360°VR/AR, drone, sports DV customized camera lens etc.

[Main Product]

Trace Optical Co., Ltd. is committed to providing high-quality optical lenses and product solutions for customers all over the world. The products mainly focus on vehicle image, Car DVR Smart home, IPC monitoring, VR / AR, drone camera, Sports DV and other domains.


TRC-20517B2-01

TRC-F20219C26

TRC-20805A26-01
FOCTEK PHOTONICS, INC.
**Booth
EL-01**

FOCtek was founded in 2002, dedicated in precision optical components and precision optical lens assembly development and production. FOCtek is a leading supplier in photonics components for life Science, Industry 4.0, Industrial Laser, Intelligent Traffic System, Automotive and advanced semiconductor equipment. FOCtek is focused on technology innovation and delivering high quality components to enable our customers to lead the market with breakthrough technologies and reliable product. FOCtek with headquarter in Fuzhou, has facility in both Fuzhou & Sanming, Fujian China, with total 72,500 square.

[Main Product]

FOCtek to provide customers with high-precision optical components, optical assembly components, precision optical lens. Precision optical lens includes: HD fixed focus security surveillance lens, HD zoom security surveillance lens, HD intelligent traffic lens, machine vision lens, ADAS lens, Infrared lens, UV lens, low lux lens, Intelligent recognition lens. Products are widely used in precision instruments, biomedical, automation equipment, Auto LiDAR, 5G Optical communication, AR/VR, aerospace, Industrial laser, Intelligent manufacturing, semiconductor testing, automatic optical detection,


**M-Plan-Apo Microscope
Objective Lens**

Endoscope Lenses

Liquid Lens

WAVELENGTH OPTO



Booth
EG-16B

Founded in 2002 and ISO 9001 certified since 2004, Wavelength Opto-Electronic's core business is optics design and manufacturing laser optics. We also provide services in optical modules, complex system customization, and LVHM rapid prototyping. We manufacture industrial laser machine process heads for the international laser application market and collaborate in extensive research and development for small-to-large scale customized optical systems while providing QA/QC metrology solutions too.

[Main Product]

Laser Optics - Top-notch laser optics for UV, visible, and IR applications. Imaging Optics - Used in microscopy, security, telescopes, cameras, medical imaging, & industrial inspection. Consumer Optics - We offer optics for consumer electronics and other consumer applications. Fiber Optics - Widely used in the life sciences and industrial sector & partnering with many world-class brands, distributing in Southeast Asia region. Lasers & Detectors - widely used in the research and metrology field.



**Ronar-Smith® F-Theta Scan
Lenses**



SWIR, MWIR & LWIR Lenses



**Ronar-Smith® Beam
Expanders**

Mstar Technologies, Inc.



Booth
FR-12

Founded in 2012, Mstar Technologies, Inc. is a technological pioneer of vision systems, software, and industrial cameras. Our products are widely applied for electronics, automobiles, logistics, food/medical packaging, textiles, biomedicine, and other industries, and make due contributions to the development of robots, high-end manufacturing, and intelligent manufacturing industries.

[Main Product]

Industrial 2D/3D camera Industrial infrared camera Machine vision software(hc visionquick HCAI adaptive-vision) AR/VR.



HCvisionSystem



**Short Wave Infrared
Industrial Camera**



**Thermal Dual Spectrum 25X
Zoom PTZ**

I-Photonics UAB
**Booth
FM-18**

I-Photonics is one of the world leaders in developing of thin film technologies and designing and manufacturer of vacuum coating systems. Having grown from the scientific lab, today company is a great team of professionals in all the areas related to the physics of surfaces, plasma, ion beams, development and production of vacuum coating machines. All I-Photonics systems are equipped with our own Optical Monitoring System. The Coaters portfolio includes IBAD, IBS, DLC and PARMS.

[Main Product]

Vacuum coating systems, optical components & job coating service



**MERIDIAN Plasma Assisted
Reactive Magnetron
Sputtering (PARMS) system**



**ORTUS Ion Beam Assisted
Deposition (IBAD) system**



**DIAMANTA vacuum system
with PECVD technology**

Jiangsu Pilot Photoelectric Technology Co., LTD

江苏派特光电科技有限公司
Jiangsu Pilot Photoelectric Technology Co., LTD

**Booth
FR-11**

The company is located in Yangzhou City, Jiangsu Province, China, and is a technology-based enterprise specializing in the research and development, production, and sales of high-end precision optical coating machines. The company has a series of products including optical monitoring evaporation coating machine, optical monitoring magnetron sputtering coating machine, new energy winding coating machine, and ALD optical coating machine, with customers covering various countries and regions in Asia and Europe.

[Main Product]

The company has a series of products including optical monitoring evaporation coating machine, optical monitoring magnetron sputtering coating machine, new energy winding coating machine, and ALD optical coating machine, including core products such as direct optical film thickness controller, plasma ion source, radio frequency ion source, electron gun, automatic control system, etc.



**Plasma ion source/radio
frequency ion source**



**Optical atomic layer
deposition coating machine**



**Composite current collector
winding coating machine**

Chengdu Guotai Vacuum Equipment Co.,LtdBooth
EJ-29

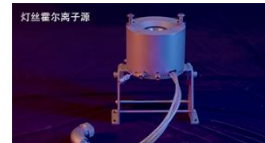
Guotai Vacuum, founded in 2013 and located in Chengdu, is a high-tech enterprise focus on R&D and manufacturing vacuum coating equipment and accessories. It is committed to providing customized coating solutions for the customers. After years' development, the company has achieved tens of patents, and has become a leading manufacturer of vacuum coating equipment in China.

[Main Product]

E-beam/Magnetron Sputtering/Thermal Coater, Roll to Roll Coater, DLC Coater, Melting Machine and Vacuum Parts such as Ion Source, E-beam Evaporators etc.

Roll to Roll Coating
Equipment

Automatic Melting Machine



Ion Beam Source

3BEAM COATINGBooth
FM-01

Shenzhen 3Beam Coating Technology Co., Ltd. is a high-tech enterprise and vacuum application solution supplier, which was founded in 2005. Our services include optical vacuum coating equipment supplying and vacuum coating processing, which is widely used in smart phone, laptop, vehicle, camera, LED etc. 3Beam Coating is devoted to the research and development of leading vacuum coating technologies and equipments.

[Main Product]

Magnetron Sputtering Optical Vacuum Coating Machine Multi-chamber Sputtering Optical Vacuum Coating Machine

Mobile phone accessories
coatingICP magnetron sputtering
optical coating machineHousehold appliances
decorative coating

AMETEK SINGAPORE PTE LTD

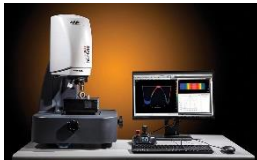


**Booth
DD-07**

Zygo Corporation is a global leader in the design and manufacture of advanced optical metrology systems and ultra-precise optical components and assemblies. Our mission is to enable customer success by delivering innovative precision optical and metrology solutions that exceed expectations. ZYGO's competencies and success stem from the core values embedded in the DNA of the company - a passion for precision, an obsession with quality, integrity in customer relationships, and pride in everything we do.

[Main Product]

Zygo manufactures high-precision products in the following categories: 3D Optical Profiler Systems Laser Interferometer Systems Absolute Position Sensors Displacement Position Sensors Optical Components Optical Assemblies.



**Zygo PRO HR & Verifire
Laser Interferometer**

**CHENGDU TYGGO PHOTOELECTRIC
TECHNOLOGY CO. LTD**

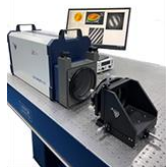


**Booth
EJ-27**

Chengdu TYGGO Photoelectricity Co., Ltd. was fund in 2002. It Locates in the High-tech Economic and Technological Development Zone of Chengdu with beautiful neighborhoods and convenient transportation. The company has passed the ISO9001 quality system certification and been known as a state-certified high-tech enterprise. TYGGO is a member unit of the China Optical Society, and a vice chairman unit of Progress in Laser and Optoelectronics. It has undertaken many national key optical engineering supporting projects.

[Main Product]

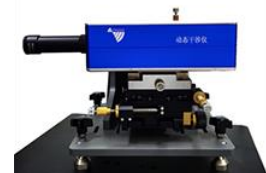
Laser spherical interferometers, Laser plane interferometers, Large aperture laser interferometer, Infrared/UV wavelength measurement system, Dynamic interferometer, Interferometer accessories: Reference mirror, Optical adjustment frame, Curvature radius measurement module.



**150mm laser spherical
interferometers**



**300mm laser plane
interferometers**



Dynamic Interferometer

**SUZHOU YUCHUAN OPTICAL
 TECHNOLOGY CO., LTD.**
ycgx
**Booth
 FM-13**

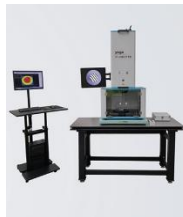
Suzhou Yuchuan Optical Technology Co., Ltd. was founded on May 2, 2012, the company is now located in Zhangjiagang City, Jiangsu Province Shunchuanggu Industrial Park, the company team with decades of foreign companies working background and professional technical strength. Since its establishment, the company has always been adhering to the service purpose of "unity, pragmatism, innovation and trustfulness". At present, the company has established excellent cooperative relations with more than 300 optical enterprises at home and abroad. The company specializes in the production and sales ser.

[Main Product]

The company's main products include: laser interferometer, non-contact thickness gauge, digital ball diameter meter, core deflector, optical prototype, optical components and so on.



**YC601U series interferometer
 is suitable for small batch
 detection**



**YC150 planar series
 interferometer**



**YC150W horizontal laser
 interferometer 6-inch lens**

**GUANGDONG YUNGKU TECHNOLOGY CO.,
 LTD**

**Booth
 EK-14**

We established in 2021 and located in Dongguan City, a High Science & Technology Park consists of 2 nine-floor factory buildings, covers a total area of 52,000 square meters, and aim to a comprehensive park for Research & Development, Office, Production, and Service Center.

[Main Product]

Automated Testing Fixture & Equipment on Automotive, Semi-conductor, Consumer Electronic Fields.



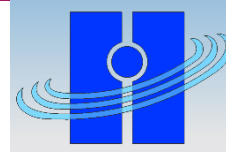
**Camera Module Active
 Alignment Equipment**



EOL Testing Fixture



Aging Test Fixture

Yuyao Huawei Apparatus co.ltd**Booth
EK-20**

Yuyao Huawei Apparatus Co.,Ltd. is a private enterprise that specializes in the line of photoelectric instrument. The company has advanced technology and equipment, excellent management logos. It is a modern enterprise that integrate designing, developing and service.

[Main Product]

The company is going for optics coolworking, microscope manufacture. Our main product are shift stereo microscope, zoom stereo microscope ,biological microscope, video microscope, digital microscope.

**Stereo microscope Digital
microscope****STELLENT NETWORKS PTE LTD****Booth
EG-65**

Stellent Networks are dedicated specialists in test & measurement, optical components, optical fiber processing, analysis and cleaning solutions.

[Main Product]

Specializing in test and measurement equipment like high end fusion splicer for specialty fiber to high-performance fiber optic end face cleaning and advanced interferometer for precise measurement and inspection of fiber end faces. We also provide High Performance Inspection Solutions for Lab and Manufacturing applications to Full Modular Optical Test & Measurement Platform for Lab & Productions.

**S185 High End Fusion Splicer
for Specialty Fiber****Pro360° Touchless Cleaner****FV Benchtop Microscopes**

Changchun Champion Optics Co.,Ltd



**Booth
FQ-03/FQ-05**

Changchun Champion optics Technology Co., Ltd. was founded in 2019, by the STS double innovation project of the Chinese Academy of Sciences, the technical team inherited the technology accumulation of more than 30 years of Changguang Institute, is a leading spectrum selection separation solution provider, focusing on the development, design and manufacturing of high-end optical components and advanced spectral instruments. Serving aerospace, life science, biomedicine, food hygiene, precision agriculture, teaching and research and other industries.

[Main Product]

Using ion beam sputtering deposition technology, our company innovatively proposes key technologies such as high-precision gradient film thickness regulation and high-positioning precision multi-spectral filter splicing. Completed the research and development and production of multi-spectrum, linear gradient, Mosaic filter and other products, with extreme ultraviolet to far infrared band development capabilities, subsidiary Vision Sprout based on our core spectral components secondary development of spectral imaging system in the industry application direction has broken through many problems.



UAV Spectral Imaging Index Analyzer



VisionSprout



Hand-held Hyperspectral Intelligent Water Analyzer, SmartAg

PI (PHYSIK INSTRUMENTE) Singapore LLP



**Booth
EE-10**

PI Southeast Asia is Your Key Partner for Motion and Positioning Solutions. PI develops and produces Linear Stages, Miniature Stages, Linear Actuators, Rotation Stages, XY Stages, Z-axis Stages, Hexapods, Air Bearing Stages, Piezo Flexure Stages, Piezoceramics, Engineered Subsystems (Cartesian Robots / Gantry Robots / Multi-axis Stacked Stages) for Automation, Active Alignment Systems for Photonics, and Customized Products. Our customers are leaders in Photonics, Electronics Manufacturing, Laser Materials Processing, Microscopy, Semiconductors, and Beamline Instrumentation.

[Main Product]

Linear Stages, Rotary Stages, Piezo Stages, Air Bearing Stages, Voice Coil Stages, Gantry Robots, Hexapods, Controllers, Drivers, Laser Control Module. Why PI: PI covers a large variety of motion technologies. From stepper motors to air-bearing gantries; from piezo components to multi-axis piezo nan positioning systems; from stacked (linear+rotary) stages to 6-axis Hexapod and alignment systems.



F-712.HA1 High-Precision Active Alignment System



ECMsm 2 or 4 axis Motion Controller with Integrated Servo Drives



Piezoceramic Components

dopa Entwicklungsgesellschaft für Oberflächenbearbeitungstechnologie mbH



**Booth
FN-15**

dopa diamond tools produces and develops all different diamond tooling and consumables to produce a precision optics component. Besides our diamond tooling business, we run our own optics shop where we produce plano optics and precision parts of all material kinds such as optical glass, soft and hard crystals like calcium fluoride and sapphire, metals, ceramics and special materials. Together with our own machinery and plant engineering we are able to provide turn-key-solutions containing machines, tools and processes.

[Main Product]

-Grinding wheels -Polishing tools -Radius milling tools -Pellets -Chamfering tools -Coolant -Dressing and conditioning tools -Diamond slurries -Ceriumoxid slurries -Flatness and parallelism measurement tools -Single sided grinding and polishing machines -Double sided grinding and polishing machines -Continuous grinding and polishing machines -Coolant filtration systems -Polishing slurry systems -Cleaning systems.



DGM1500



CP2500



Consumables

SCIL Nanoimprint solutions



**Booth
FN-19**

High-volume production solutions for wafer patterning using a unique nano-imprint technology Many products like smart phones, smart glasses and cars require high-performance optics for sensing and vision applications. These nano-photonics need to be produced at high volume, high yield and at low costs. With the combination of imprint equipment, imprint materials and process know-how SCIL Nanoimprint solutions is uniquely positioned to offer its customers the best high-volume production solution for nano-photonics and other applications.

[Main Product]

Imprint equipment, imprint materials and process know-how.



SCIL Nanoimprint solutions



FabSCIL



AutoSCIL

Heidelberg Instruments Mikrotechnik GmbH



**Booth
FN-22**

Heidelberg Instruments is a world leader in the development and production of high precision laser lithography systems, maskless aligners and nanofabrication tools. With 40 years of experience and an installation base of more than 1,400 systems worldwide at industrial customers and in academic facilities, we provide lithography solutions specifically tailored to meet all micro- and nanofabrication requirements of our customers. Industry leaders in the fields of MEMS, BioMEMS, ASICS, TFT, displays, micro-optics, sensors, semiconductors/advanced packaging and automotive are among our customers.

[Main Product]

High precision laser lithography systems, maskless aligners and nanofabrication tools for the production of binary layouts and complex 2.5 and 3D structures in micro-optics, photonics, microfluidics, nanobiotechnology, electronics, communication technology, material science, ...



MLA 300 MASKLESS ALIGNER FOR VOLUME PRODUCTION



DWL 4000 GS – THE INDUSTRIAL-LEVEL GRAYSCALE TOOL



NEW! VPG 300 DI Maskless Stepper

SUZHOU BOHONGYUAN MACHINERY MANUFACTURING CO., LTD



**Booth
EK-19**

Suzhou Bohongyuan Machinery Manufacturing Co., Ltd. was established on August 30, 2016. The R&D team is formed by the original well-known Lanzhou Ruide team and Japanese technical team. It has been engaged in the industry for nearly 30 years, with rich experience and deep seniority. Is a professional R & D, manufacturing, sales of all kinds of high-precision single and double side grinding, polishing equipment and CNC engraving machine, wire cutting machine and other special equipment of high-tech enterprises.

[Main Product]

The company's main independently developed products are :9BF, 13BF, 16BF, 18BF, 22BF, 24BF, 32BF, 360, 485, 520 and other single and double surface grinding and polishing machine, SFG300 single head mechanical reducer, SFG300 single head air floating spindle reducer, SFG300 automatic double spindle single-side reducer, EP15 0 Edge polishing machine. Mainly used for semiconductor, silicon carbide, silicon nitride, gallium arsenide, gallium nitride, alumina, 2.5D and 3D shaped parts and other hard and brittle materials single-sided high-precision grinding and polishing.



Reducing machine



32BF precision double-sided surface grinding machine/polishing machine



13BF precision double-sided surface grinding/polishing machine

SUZHOU HRT ELECTRONIC EQUIPMENT TECHNOLOGY CO.,LTD CO.,LTD



**Booth
FJ-02**

Suzhou Herite Electronic Special Equipment Technology Co., Ltd., was established in 1969. To research and development, production, sales of cutting, grinding, polishing and other special equipment and auxiliary products, overall solutions of high-tech enterprises.

[Main Product]

Cutting machine (single wire saw/multy-wire saw) Lapping machine (double side lapping machine:6B-32B) Polishing machine(double side polishing machine:6B-32B, single side polishing maching:305/36D/50D/59D)



Single-wire-saw



Double-side Lapping machine



Double-side Polishing machine

Sichuan Perfect Optics Co., LTD.



**Booth
EJ-20**

Perfect Optics is a cutting-edge technology company specializing in the research and development of optical equipment and processes, as well as the design and manufacturing of Ultra-precision optical components and polishing systems. Backed by a team of highly skilled and experienced professionals with decades of expertise in the optical field, we have mastered the entire process of manufacturing optical components with nanometer-level precision and even sub-nanometer accuracy.

[Main Product]

Our core business encompasses a wide range of products, including ultra-precision machining equipment (such as ion beam machining systems, robot machining systems, CNC polishing machines, and MRF polishing machines), advanced coating equipment (ALD, IBS coating machines, etc.), precision components (ion sources, light control systems), ultra-precision manufacturing capabilities (for flat, spherical, aspherical, and freeform surfaces), and customized lenses and optical systems tailored to meet specific customer requirements.



Ion Beam Figuring Machine



Intelligent polishing robot



CNC polishing machine

**FUZHOU ZIFENG PHOTONICS
TECHNOLOGY CO., LTD.****Booth
FR-20**

FUZHOU ZIFENG PHOTONICS TECHNOLOGY CO., LTD. is an advanced solid industrial UV laser professional manufacturer, the company focuses on the research and development and production of high power Q-switched UV industrial laser, Laser refurbishment service repair center and optical component chamfering equipment. ZIFENG has built the most complete UV laser refurbishment production line in China. We have a variety of international general models of 355nm laser refurbishment, repair, maintenance capabilities.

[Main Product]

PanDo Q-SERIES UV laser is widely used in micro drilling, FPC blind via drilling, semiconductor LOW-K cutting fields, and has noble quality - high energy density and high reliability, high-quality products and service guarantee, making it the choice of global laser cutting equipment manufacturers. CM02B optical precision chamfering machine designed for precision chamfering in the process of optical components, which can be used for flat, round and other shapes of optical parts. It is suitable for almost all optics chamfering, Such as K9, BK7, quartz, LBO, BBO, YAG, Si, SIC and so on.

**CM02B chamfering machine****PanDo Q-Series UV laser****Q-Series UV laser repair center****Nanguang Hi-Tech (Xiamen) Laser Co.,
Ltd,****Booth
FN-29**

Founded in 2016, the company is a Sino-foreign joint venture founded by returnees who have studied abroad to develop and produce high-end new ultrafast lasers and laser equipment for precision manufacturing. The company has core technical advantages, independent intellectual property rights and independent brands. With accurate, efficient and stable laser technology as the basis, to achieve product intelligence, integration, and create a low-cost, high-efficiency business model.

[Main Product]

The company has nanosecond ultraviolet laser, green laser, picosecond seed source and picosecond laser and other core patented products, and can customize special lasers, including single frequency, vector polarization, high energy, high power, specific wavelength, tunable laser. Some products have a leading position in China, reaching the international level, and can provide professional system solutions and services for enterprises, scientific research institutions and universities and other units.

**DPSS Laser****Fiber Laser****Hybrid Laser**

ILASER PTE LTD

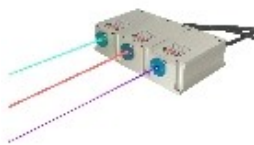


Booth
EG-29

Based in Singapore, iLASER PTE. LTD. Is a solution provider company focusing on Photonics Technologies and Digital Fabrication Solutions for Research and Industrial applications. We aim to provide excellent products that drive the vision and infinite possibility. Our commitment to service and support, so to achieve true customer satisfaction.

[Main Product]

We offer different types of laser processing machine such as laser marking, engraving, cutting, welding, customized systems, and components. For R&D side, dedicated to offer high quality lasers, laser systems, laser safety equipment, optical spectrum analyzer, teaching and laboratory equipment, optical measuring equipment, laser processing equipment, machine vision and the photoelectric detection, etc.



DPSS Laser



MIRAS Series



NOVA Elite Series

ACEXON TECHNOLOGIES PTE LTD

AceXon

Booth
EG-26

Acexon Technologies Pte Ltd was established in Singapore since 2004 as a sales and technical service provider specializing in field of Laser, Optics, Electro-optics and Photonics serving several countries in South East Asia region. Acexon represents the best companies in their respective field like Light Conversion, Ekspla, APE-Berlin, Oxxius, nLight, Semrock, Eksmaoptics, Codixx, GENTEC-EO, Kentek, Lasernet, Quantum Light Instruments, Madcity Labs, Standa, Light Machinery, OPTEC, Laser Quantum, Lumencor, MESSTEC Power Converter GmbH, ATL, Duma Optronics.

[Main Product]

Femto-second Laser, Pico-second Laser, Nano-second Laser, Laser Diode, Fiber Laser, Excimer Laser, TEA Co2 Laser, Optical Fiber, Laser Power Detector, Laser energy Detector, Spectrometer, Wavemeter, Pulse Picker, OPO, OPA, Wavelength Tune-able Laser, Laser Beam Profiler, Autocorrelator, Laser Curtain, Laser Barrier, Laser Eyewear, Laser Safety Interlock, Laser Signage, Laser Filter, Nano-stage, Optical Isolation Table, Pulse Compressor, LED, Optical Filter, Microscope, Laser Micro-machining System, Laser Marker, Polarizer, Lens, Crystal, Harmonics Generator.



FemotLux 30 – EKSPLA
Industrial Femtosecond Laser
For Micromachining



Pronto-250 PLUS - GENTEC EO
Portable laser power meter for up
to 250 W



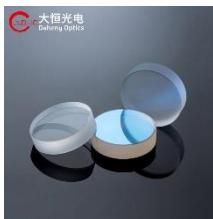
nLight element® Laser Diode

Daheng New Epoch Technology, Inc.Booth
FL-20

Daheng Optics, a wholly-owned subsidiary of Daheng New Epoch Technology, Inc, specializes in optics. Since 1987, Daheng Optics has been successful in its business by offering a comprehensive catalogue, engaging in custom-designed optical systems, and providing professional solutions. It is capable in design, development and manufacture optical components, modules and systems. Closely-linked with academic partners, Daheng Optics continuously develops new products and is active in worldwide market.

[Main Product]

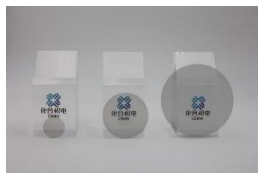
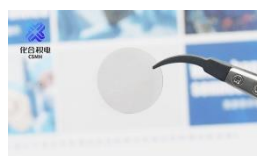
Optical components, Coating components, Assembly lenses, Mechanical components, Lasers, OEM Solutions.

**Broadband Laser Mirrors****Beam Expanders****Laser Focusing Lenses****Compound Semiconductor (Xiamen)
Technology Co., Ltd.**Booth
EK-08

Compound Semiconductor (Xiamen) Technology Co., Ltd. is an advanced semiconductor manufacturing technology company registered in the city of Xiamen, China. We have equipped with advanced semiconductor manufacturing tools including MPCVD, MOCVD, LPCVD, HVPE and high temperature PVD to produce high quality Diamond wafer and AlN template on various substrate including Si, sapphire, and polished diamond. Our mission is to be the most advanced compound semiconductor company in the global market, contributing to the related technology development.

[Main Product]

Polycrystalline diamond: Diamond wafer/Diamond heat sink/Diamond window/GaN on diamond; Single crystal diamond: thermal grade, optical grade, electronic grade, quantum grade.

**Diamond heat sink****Diamond window****Single crystal diamond**

**Shanghai Yogel Communication
Equipment Co., Ltd****Booth
FP-25**

Our products cover most wavelengths of ultraviolet, visible and near-infrared light, including 190 to 2050nm band: specialty jumpers and adapters, fiber collimators, fiber isolators, fiber circulators, fiber couplers, fiber combiners, fiber polarizers, wavelength division multiplexers, band-pass filters, fiber mirrors, fiber rotating mirror, Fiber attenuators and fiber gratings, standard or high-power and polarization maintaining components, small and ultra-small packages can be customized. We can produce components with different types of optical fibers.

[Main Product]

Specialty jumpers and adapters, fiber collimators, fiber isolators, fiber circulators, fiber couplers, fiber combiners, fiber polarizers, wavelength division multiplexers, band-pass filters, fiber mirrors, fiber rotating mirrors, Fiber attenuators, fiber gratings, standard or high-power and polarization maintaining components, small and ultra-small packages can be customized.

**Polarization-Maintaining
Patch Cable****QBH Laser Cables and End
Caps****Ultra-High-Vacuum Fiber
Feedthrough Flanges****Wuhan Gaoyue Science & Technology****Booth
FL-26**

Founded in 2014, it is located in "Wuhan · China Optical Valley". We committed to the development of semiconductor optoelectronic devices for various industrial applications, and we supply semiconductor lasers, detector products and solutions. We have TO, butterfly and other optical device design and chip customization capabilities, with complete semiconductor optoelectronic device packaging and testing platforms. There are 30+ employees, half of which are R&D teams. We have already become a professional optical device supplier with first-class R&D strength and shipment scale in China.

[Main Product]

Light Source Series for LiDAR, Laser Series for TDLAS, Optical Component Series for OTDR, High Performance Photodetectors, etc.

**Pulsed High Power Laser
Diodes****Specific Wavelength &
Packaging Laser Diodes****Narrow Linewidth Laser**

Optizone Technology (Shenzhen) Limited
**Booth
EL-13**

Optizone Technology was founded in 2007. It is a manufacturer and supplier of optical passive components mainly for various industries. We provide both standard and customized components as well as Integrated solutions to our customers, including High Power components with kilowatt level, both PM and SM fiber components with ranging from 630nm to 2050nm and other components. There are Fiber Optical Cable, Optical Isolator, Fiber Pump Combiner, Fiber Opticle Coupler and other products.

[Main Product]

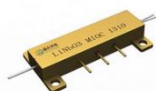
Optical Passive Components Polarization Maintaining Isolator High Power Isolator Polarization Insensitive Isolator Fiber Optic Cable Polarization Maintaining Collimator Polarization Beam Splitter Polarization Maintaining Filter Coupler Polarization Maintaining Circulator Polarization Maintaining Band Pass Filter Polarization Beam Combiner Polarization Maintaining Coupler In-Line Polarizer In-Line Isolator In-Line Faraday Rotator PM CWDM DWDM PMWDM PMFWDM PM Isolator PM Coupler PM VOA PM Circulator PM Collimator OCT Module Seed Laser Combiner Module Large Beam Collimator.

**Integrated Q+****OCT Module****Isolator Series****Crystrong Photonics Technology Co., Ltd**
**Booth
FQ-25**

Jinan Crystrong Photonics Technology Co., Ltd. Was established in 2012. It is a high-tech enterprise focusing on crystal growth, processing, research and development, and production of high-end photonics devices. The company has a factory area of more than 6000 m² and has the largest DKDP crystal growth base in Asia. Its products serve important companies in the global application laser field. Crystrong is committed to becoming a globally influential supplier of laser products and services.

[Main Product]

KDP/DKDP, LiIO₃, LiNbO₃, RTP, ZGP, PPLN crystals DKDP pockles cell, LiNbO₃ pockles cell, PPLN waveguide, LN modulator, SESAM, DLaTGS.

**PPLN waveguide****DKDP pockles cell****DKDP crystal**

**RUIK-TECH COMMUNICATION
(DONGGUAN) CO., LTD.****RUIK****Booth
EK-18**

Founded in 2013, RUIK is a leading manufacturer of optical passive components design mainly for various industries which include Fiber Lasers, Autonomous Driving, Fiber Sensing, Aerospace, Biomedical, Quantum Communication, Fiber Network and Optical Research, etc. RUIK specialized in Polarization Maintaining (PM) fiber components, Single-Mode (SM) fiber components and High Power fiber components with ranging from 405nm to 2100nm, and also provides product solutions and customized services for customers.

[Main Product]

Optical Fiber Isolator, Fiber Circulator, Fiber WDM, Bandpass Filter, Pump Protector, Fiber Coupler/Splitter, In-line Polarizer, Polarization Beam Splitter/Combiner, Pump Combiner, Faraday Rotator Mirror, Manual Variable Optical Attenuator (VOA), Fiber Patch Cord ect.

**Optical PM Isolator****Pump & Signal Combiner****Optical Fused Coupler 1550nm /
1064nm / 1030nm / 2000nm****CRYSTECH Inc.****Booth
EK-25**

CRYSTECH Inc. was established in the beautiful coastal city of Qingdao in 2001. CRYSTECH has modern offices and production plants with a total area of more than 8000 square meters. We passed ISO9001 Quality Management System certification in 2006. As a world-renowned laser components manufacturer, we provide one-stop solutions for core components of medical lasers. Among them, the most representative products include Alexandrite rods, KD*P Pockels Cells, Nd:YAG rods, CTH:YAG, high damage threshold Laser Optical Components, Laser Handpieces and Reflectors.

[Main Product]

Laser Crystals: Alexandrite rod, Nd:YAG(Nd:Ce:YAG), CTH:YAG, Nd:YVO4, Diffusion Bonded Crystal Q-Switch: RTP Q-Switch, DKDP Pockels Cell, Co:MgAl2O4, Cr:YAG NLO Crystals: KTP, HGTR-KTP, KTA, BBO Optical Components: Mirrors, Lenses, Windows, Polarizers Prisms, Filters(IPL), Waveplates, Cell Mirrors, Pico Lenses, Laser Components: 1535nm bonded crystal, Laser Modules(755&1064&2100nm) Reflectors: Ceramic reflector, Quartz Reflector Handpiece: Dye laser Handpieces, DOE Handpiece, FLA Handpiece

**KD*P Pockels Cell****RTP Q-Switch****Laser Module**

OPTOSIGMA SOUTHEAST ASIA PTE LTD

Booth
EF-06

OptoSigma was founded in July 1995 as a joint venture between a group of managers in the USA and SIGMAKOKI Company, a leading Japanese supplier of Optical and Opto-mechanical products. We stand committed to "Light Solutions for Life®." This brand statement embodies our dedication to supporting diverse milestones in your journey through continuous innovation in optical technology and the delivery of high-value solutions. Inheriting the SIGMAKOKI Group's unwavering commitment to "Monozukuri," an art of Japanese manufacturing, we shape the future with transformative light.

[Main Product]

Anti-vibration table, Optical Components, Optical Systems, Microscope products, Objective Lenses, Autocollimator, Microsampling Systems, CFRP breadboard, SNSPD, Tunable Lasers, Ultrafast Lasers, GHz fs Laser 1550nm, Optical Cage Systems and core Unit for Microscopy, Fiber Alignment System & Stages, Motorized Stages, Holders & Mounts, Micro Manipulator.



**High-performance Vibration
Isolation Systems with Steel
Honeycomb Top**



Axis Pro F



Piezo Assist Motor

Guangdong Seeney Technology Co., Ltd

Booth
FR-08

Guangdong Seeney Technology Co., Ltd. is an innovative high-tech enterprise that specializes in the research and development, production, sales, and service of visual inspection equipment, with artificial intelligence, AI deep learning, and computer machine vision as its core. Seeney's independently developed artificial intelligence technology, after years of research and development innovation and practical accumulation, provides visual intelligent detection solutions to giant companies in the new energy industry, electronic components, high-precision hardware components, and raw materials.

[Main Product]

Standard Six sided Testing Equipmen Function: Detecting appearance defects, dimensions, counting and packaging Ribbon detection equipment Mainly used for testing cover strip products such as chips, inductors, crystal oscillators, and chips High speed testing machine applied to resistance and capacitance series Non standard customized visual inspection equipment: mainly customized according to the different needs of customers



**Standard Six sided Testing
Equipment**



High-speed testing machine



Ribbon detection equipment

Shaanxi ZKZM laser Technology Co., LTD

ZKZM

Booth
EL-08

ZKZM is a high-tech company incubated by Xiguang Institute of Chinese Academy of Sciences in 2012, focusing on the research and development, production and sales of high speed laser cladding and laser welding equipment. ZKZM has a professional technical team, owns more than 40 patents around high-speed laser cladding technology, and has a number of qualification awards such as ISO9001 quality certification, national high-tech Enterprise. Our customers currently cover coal mining, metallurgy, aerospace, petroleum and other fields. Products sell well in Europe, America and Southeast Asia market.

[Main Product]

high speed laser cladding equipment uses fiber laser to output high energy laser beam, through the precision design of high speed laser cladding head and high speed or high speed motion mechanism, the laser beam, powder beam and inert gas flow accurately combined. The high speed laser cladding machine has the characteristics of high efficiency, low cost, environmental protection, etc., which can meet the coating manufacturing and rapid repair application. high speed laser cladding technology is considered to be the most competitive process that can replace electroplating technology.



high-speed laser cladding
equipment

Efab International Technology Co., Ltd.

Booth
FR-13

In the rapidly changing environment of today's technology driven manufacturing, successful producers are continuously faced with implementing manufacturing solutions to improve the overall productivity and profitability of their facilities. This may mean the acquisition of leading edge technologies, the addition of proven technologies to increase capacities and in many cases, the phasing out of valuable technologies that still have many years of useful productivity in the right facility. Whatever your individual needs, Efab has a solution for you.

[Main Product]

Efab became an independent operational unit based in Taiwan with a focus on the re-marketing of MOCVD, Solar/PV and Flat Panel Display equipment. Our services are designed to help you manage your capital equipment assets and find the equipment you need to improve your profitability at affordable prices and without long OEM lead times. Additionally, Efab is a web based, B2B marketing tool which you can use to re-market your surplus technologies. Surplus inventories and processing tools have value.



EFAB - Aixtron Crius II 55x2"
13x4" GaN



EFAB - New RF Coil 8 Turns



EFAB - Lightpipe Sensor

Shenzhen EVERBEST MACHINERY INDUSTRY Co., Ltd

CEM

Booth FP-19

SHENZHEN EVERBEST MACHINERY INDUSTRY CO.,LTD (Brand : CEM), established in 1991, is a high-tech enterprise specialized in R&D, production and marketing of various professional measuring instruments. More than 33 years of manufacturing experience has given us the confidence to guarantee the quality of all our exports. Our factory in Shenzhen China, occupies 3 buildings with area of 24,000.00 square meter. 2 R & D centers are on hand for customers' requirements, constantly working on new products to meet the ever changing demand of our customers' needs.

[Main Product]

CEM has been a leading Chinese manufacturer specialized in Thermal imager, Infrared Thermometer, Digital Multimeter, Clamp-on Meter, Insulation Tester, Electrical Tester, Renewable Energy Tools, Laser Distance Meter, Temperature & Humidity Meter, Light Meter, Sound Level Meter, Thermo-Anemometer, Gas Detector, Radiation Scanner, Manometer, Energy Storage Solutions and various measuring instruments.



**Residential & Small
Commercial Energy Storage
Solutions**



**Solar Energy photovoltaic
Industry Testers**



**Three-phase Power Quality
Analyzer with InfraRed
Thermal Imager**

Uni-Trend Technology (China) Co., Ltd.

UNI-T

Booth FN-11

Founded in 1988, UNI-T is one of the well-known test and measurement solutions provider in Asia. Uni-Trend is an ISO9001 and ISO14001 certified company, with T&M products meeting certifications including CE, ETL, UL, GS, etc. With R&D centers in Dongguan, Chengdu and Changzhou, We are capable of manufacturing innovative, reliable, safe to use, and user friendly T&M products. Uni-Trend has established collaborations with partners in over 80 countries for product distribution and services. With products meeting industry standards, is able to fully satisfy product demands from around the world.

[Main Product]

Handheld Thermal Cameras: UTi384G, UTi256G, UTi740H, UTi32, UTi730E, UTi720E, etc. Smartphone Thermal Cameras: UTi720M, UTi722M, UTi721M, UTi120M, etc.



**UTi384G Professional
Enhanced Thermal Camera**



**UTi256G Professional
Enhanced Thermal Camera**



**UTi740H Professional
Enhanced Thermal Camera**

VASTA PTE. LTD.**VASTA****Booth
EE-19**

VASTA PTE. LTD. provides comprehensive solutions for single-photon detection and its related applications in communication, long-distance imaging, semiconductor, chemistry, field monitoring, industrial process monitoring, gas detection, etc. Vasta's optoelectronic products are based on the core optoelectronic technologies for single-photon preparation, modulation, detection, and demodulation, and extend to fundamental applications of low-light detection technology. VASTA is also the official distributor of Oceanhood's fiber-optic spectrometer products.

[Main Product]

1. Pico-second pulse laser, 2. InGaAs near-infrared single-photon detectors and CMOS cameras, 3. Optical accessories: crystals, filters, modulators, controllers, 4. Integrated systems: single photon imaging radar, femto-laser frequency comb, etc. 5. Fiber-optic spectrometers: hand-held Raman spectrometer, high-speed spectrometer, NIR spectrometer, etc.



InGaAs Near-infrared Free-running Single-photon Detector



High-speed Picosecond Pulse Light Source



Phase Modulator

Umicore-Electro-Optic Materials


umicore
**Booth
FT-09**

Umicore Electro-Optic Materials (EOM) stands as a global leader in advanced material solutions for optical and electronic applications, distinguished by their powerful closed-loop and sustainable sourcing business model. What sets EOM apart is an unmatched 40-year expertise in Germanium refining and processing, also in the field of Infrared Optics for the long-wave infrared market. As industry pioneers, Umicore EOM is committed to delivering innovative and exceptional solutions, making them a trusted partner in the dynamic realm of optical and electronic technologies.

[Main Product]

Umicore Electro-Optic Materials (EOM) excels in Germanium and Infrared Solutions. In Germanium, we specialize in substrates supporting opto-electronic applications, GeCl₄ for optical communication fibers, and High Purity Germanium Crystals for gamma-ray analysis. In Infrared, our precision optics serve thermography, surveillance, and automotive sectors, while our filters enable oil and gas detection, CO₂ lasers, and thermal imaging. Innovatively, our Infrared coatings, including the advanced iDLC, redefine industry standards.



SXGA compatible lenses



Germanium substrates

Beijing WanTengDaSi Technology Co., Ltd.
**Booth
FN-26**

Beijing WanTengDasi Technology Co., Ltd. is located in the core of the West Fourth Ring Road area. It is a high-tech company focusing on the design, development, production, sales and service of laser and infrared thermal imaging products. The company not only provides professional technical services, but also established a perfect after-sales service system to provide guidance and help for customers in the use of products in the process of technical problems. We believe that through our continuous efforts and search, we will be able to achieve mutual benefit and win-win with you!

[Main Product]

The company independently develops and produces infrared thermal imaging lenses, such as manual focusing lens, electric focusing lens, non-thermal lens, double lens, double field lens, continuous zoom lens, medium wave cooling lens, sighting lens, fisheye lens off-axis mirror, silicon mirror, whole machine module, etc.


**Infrared ultra-high
temperature lens**

Metal off-axis mirror

Optical system imaging
Dongguan Xintai instrument Co., Ltd.
**Booth
FP-26**

Dongguan Xintai Instrument Co., Ltd. was established in 2010. It is a high-tech instrumentation enterprise specializing in independent research and development, production, sales and service. It owns two major brands: "HTI" and "Xintest". The factory is located in Tangxia Town, Dongguan City, covering an area of more than 6,000 square meters. Since its establishment, the factory has always adhered to the business principles of talent-oriented and integrity, gathered industry elites, introduced advanced technology and equipment, and is deeply involved in infrared heating.

[Main Product]

Infrared thermal imaging cameras, thermal imaging telescopes, anemometers, differential pressure meters, noise meters, temperature and humidity meters, environmental detectors and other instruments.


**HT-C18 outdoor thermal
imaging telescope**

**HT-V01 vehicle infrared night
vision system**

**HT-203U Mobile thermal
camera**

Neuvition Technology (Xiamen)Co.,Ltd
**Booth
FN-30**

Neuvition Inc. is a global LiDAR sensors and solutions provider, providing customers with advanced LiDAR sensors and customized solutions to meet customers' business challenges in scenarios including automatic driving, intelligent transportation, 3D mapping, volume measurement, industrial machine vision, etc. Our customers and partners are located in North America, Europe, Asia, and other regions. As a trusted partner, we will continue to work with our customers and partners to develop more and more innovative products and solutions.

[Main Product]

LiDAR sensors, software technology services, and solutions.


Titan M1

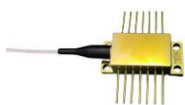
Titan W1

NeuX1
Shenzhen Photonx Technology Co.,Ltd
**Booth
EL-18**

Shenzhen Photonx Technology Co. Ltd was founded in the year of 2018, Co-founding members are mostly come from Peking University , with more than 10 years of R&D working experiences in the fields of photoelectric , we have build a complete system covering chip design & testing & encapsulation 、 laser device design & assembly and laser modules production. Our main product are : narrow linewidth laser and laser modules , tunable narrow linewidth laser modules , our products were widely used in optical fiber sensing, LIDAR and high-speed optical communication etc.

[Main Product]

narrow linewidth laser and laser modules , tunable narrow linewidth laser modules.


**Narrow Linewidth Fixed
Frequency Laser**

**Narrow Linewidth Laser
Modulation**

**Tunable Narrow Linewidth
Laser Modulation**

Jilin Qiushi Spectrum Data Technology Co., Ltd.



Booth
FP-03

Founded in May 2017, Jilin Qiushi Spectrum Data Technology Co., Ltd. is a high-tech enterprise engaged in the design of spectral imaging chips & the research and development of application solutions in various fields, as well as the construction of spectral big data. The headquarters is located at No. 6666 Ecological Street, Jingyue District, Changchun City, Jilin Province and has set up subsidiaries in Shenzhen and Foshan. The founding team is mainly from Changchun University of Technology and has accumulated more than 20 years of experience in the field of spectral technology and application.

[Main Product]

Spectral chips Multispectral camera Hyperspectral camera Hyperspectral camera Fire Eye Q1 Multispectral microscopy.



Intelligent spectral chips



Hyperspectral camera



Fire Eye Q1

SHENZHEN RAYSEES TECHNOLOGY CO.,LTD.

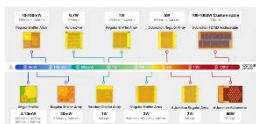


Booth
EK-07

Raysees provides cutting-edge VCSEL chips, high quality VCSEL light sources, and competitive optical sensing solutions for customers of automobiles, consumer electronics, intelligent sensing, healthcare and so on. Dedicated in the field of compound semiconductor, Raysees keeps pushing the boundary of VCSEL performances through innovative core technologies. Backed by strategic long-term relationship with top-level fabs, Raysees provides VCSEL products with fast cycle time, high quality and reliability.

[Main Product]

VCSEL Chips (Die): Single- and Multi-Emitter VCSELs, Single- and Multi-Junction VCSELs VCSEL sources for consumer electronics: Single spot, laser line, flooding illumination, dots pattern, speckle VCSEL sources for medical and health: Hair regrowth, hair removal, laser therapeutic VCSEL driver solution: VCSEL driver solution for consumer and automotive, pulse-width up to 2ns.



VCSEL Chips (Die)



VCSEL Light Sources

XIAMEN FENGXING OPTOELECTRO-TEK
**Booth
FN-31**

Xiamen Fengxing Optoelectro-tek Co. Ltd. established in 2017 with a registered capital of RMB 10 million, is an enterprise dedicated to the product development and technology application in the field of optical fiber sensing, and the development and technology application of optical fiber safety monitoring system. With rich experience in product development and application in the industry, as well as experienced senior engineering and technical personnel and production management personnel, the company has laid a solid foundation for scientific research.

[Main Product]

Xiamen Fengxing Optoelectro-tek provides highly reliable distributed temperature, strain and vibration measurement systems with high sensitivity. The fully distributed fiber temperature measurement system provides an intelligent fire alarm, used for identifying hot spots on the power core, power station, warehouse, industrial furnace, etc. The distributed vibration system gives smart alarms on many pipeline leakages. Furthermore, we have integrated optical sensing system (includes ultra-narrow-linewidth laser, FBG, EDFA, laser light source etc.)



Ultra Narrow Linewidth Laser

**High Power Ultra Narrow
Linewidth Laser**

**1xn Rack Mount Motor
Optical Switch**

**PC-Controlled High
Resolution FBG Sensor
Demodulation Module**
Inxun Technology Co., Ltd.
**Booth
EL-27**

Inxun Technology, from China, is an innovation-driven high-tech company with technology leadership in silicon photonic integrated chip technology and compound semiconductor laser technology, with vertically integrated technology capability in the production and manufacturing process. The company focuses on the research, development, production and sales of key silicon optical components, lasers, integrated optoelectronic devices and sub-systems for high-end sensing and autonomous drive/robot LiDAR application. The product's leading performance is well recognized by international customers.

[Main Product]

The main products include wide-range mode-hopping-free continuous tunable lasers/modules, ultra-narrow linewidth lasers/modules, wide-range tunable semiconductor lasers, and OFDR/FMCW silicon light Integrated lidar chip, etc.


**Ultra-narrow Linewidth
Laser/Module**

**Narrow Linewidth Linear
Sweep Laser (1~100GHz)**

**Inxun Technology
Co., Ltd.**

TuoTuo Technology (Suzhou) Co.,LtdTuoTuo Technology
**Booth
EK-11/EK-13**

TuoTuo Technology is a manufacturer specialized in optical equipment for microfabrication and inspection. It has established itself as a high-tech enterprise integrating design, research and development, manufacturing, sales, and customer consultation services. The company is committed to providing comprehensive technical supports to its customers, aiming to create exceptional quality through advanced technologies and meticulous design. Its dedication to patient service and corporate responsibility has earned it a favorable reputation.

[Main Product]

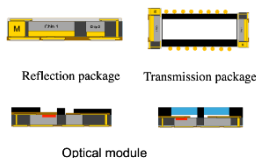
Up to present, the company has five series of products, including (A) Maskless UV Lithography, (B) Magnetism Characterization Tools, (C) Photocurrent Microscopy & Spectroscopy, (D) Ultra-high Precision 3D Printing, and (E) 3D Microscopes.

**Maskless UV Lithography****Integrated Kerr Microscope
with Probestation****The Aurogon™ series
Scanning Photocurrent
Microscope****OIP TECHNOLOGY PTE LTD**OIP
TECHNOLOGY
**Booth
EG-16E**

OIP Technology Pte Ltd is a manufacturing company for silicon photonics, laser oscillator, miniLED package for high growth margin markets such as AI, mobile, wearable products and new displays.

[Main Product]

1. Silicon Photonics Module 2. Optical Module 3. Mini-LED Backplate 4. High-Power Optical Product Packaging Methods:

**VCSEL package/Optical
module/Silicon photonics
module/MiniLED display**